DOCUMENT RESUME

CE 033 591 ED 220 663

AUTHOR TITLE

Chapman, Warren; Katz, Martin R. Survey of Career Information Systems in Secondary

Schools. Final Report of Study 1.

INSTITUTION SPONS AGENCY Educational Testing Service, Princeton, N.J.

Aug 81 PUB DATE

National Inst. of Education (ED), Washington, DC.

400-79-0020 CONTRACT

608p.; For a related document see CE 033 592.

EDRS PRICE DESCRIPTORS

NOTE

MF03/PC25 Plus Postage.

*Career Education; Educational Resources;

*Information Dissemination; Information Needs; Information Sources; *Information Systems;

Information Utilization; National Surveys;

*Occupational Information; Program Effectiveness; Program Implementation; Questionnaires; Reference

Materials; Relevance (Information Retrieval); Resource Materials; Resources; School Surveys; *Secondary Education; Student Attitudes; *User

Satisfaction (Information): Use Studies

ABSTRACT

A national study examined the ways in which career information is being provided at the secondary school level as well as the quality and value of this information. To identify and evaluate those career information resources that are currently available to secondary school students, researchers analyzed questionnaires completed by representatives from 1,894 schools and 4,883 students. They found that bound references, school-arranged experiences, and occupational kits and briefs are the most common resources. Much less common are computerized systems. Survey responses indicated that most schools offer a wide variety of career information resources. However, a study of the quality of available resources suggests that most students rely not on formal resources provided in schools but rather on informal sources such as parents, friends, and television. Also, fewer than one-third of the students surveyed thought that the resources provided by their schools were sufficient. Consequently, recommendations were made for correcting deficiencies, providing linkages, and improving computer-based systems. (MN)

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SURVEY OF CAREER INFORMATION SYSTEMS IN SECONDARY SCHOOLS

Final Report of Study 1

bу

Warren Chapman Martin R. Katz

Educational Testing Service Princeton, New Jersey August 1981

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ACKNOWLEDGMENTS

Compiling an "Acknowledgments" page is a heartening experience. It brings out of the shadows the really vast number of persons who have contributed (usually without pay) to this survey. The only sad aspect of the compilation is that so many of the contributors must go unnamed. We don't even know the names of some of them—the anonymous respondents to the questionnaires, individual members of committees and councils—but we thank them all and take this opportunity to say so in public.

Here, in no particular order, are those who helped make this survey possible.

Our NIE monitors, who were always patient and constructive: Robert Pruitt; his successor, Ronald Bucknam; and the right hand of both of them, Nancy Borkow.

For NOICC, Walton Webb and Russell Flanders.

Other Government officials who took time from their schedules to advise us: Neil Rosenthal and Kathy Wilson of the Bureau of Labor Statistics; Michael Pilot and Jules Spector of the Department of Labor, who reviewed sections of the draft version of the report; and the NIE Technical Advisory Panel: Maurice Birch (Department of Labor), Cheryl Berry (NIE), Robert Calvert (National Center for Educational Statistics), Evelyn Ganzglass (Department of Labor), Paul Mancheck (Office of Education), David Pritchard (Office of Education), Nancy Pinson (Maryland State Department of Education), Michael Pilot (Bureau of Labor Statistics), Stuart Rosenfeld (NIE), Walton Webb (NOICC), and Steven Zurilliger (Office of Education).

We had a Research Advisory Council especially convened for the survey. Their guidance was invaluable. Its members were Hector Chavarria, Principal, Santa Maria, California; Joyce H. Clark, Chicago Board of Education; Marcia Freedman, Office of Conservation of Human Resources, New York; David Jepsen, University of Iowa; Thelma C. Lennon, North Carolina Department of Education; Polly Parish, Director, Colorado Information System; Daniel Sinick, George Washington University, Washington, D.C.; and David Winefordner, Appalachia Educational Laboratory.

The Research Advisory Council was augmented by the presence of Robert Alexander of the National Governors' Association, and Sandra Streeter, Director of the New Jersey State Occupational Information Coordinating Committee. They were singularly productive channels of information as well as sources of wisdom.

The Council of Chief State School Officers and its Committee on Evaluation and Information Service helped construct the survey instruments, recommended their approval, and supported our approach to the schools.

The College Board, in activities directed by Solomon Arbeiter, served as subcontractor for dissemination. Mathematica Policy Research, Inc., with Barbara Phillips as project director, was subcontractor for preparation of instruments and data collection. How well they did their tasks!



1

A great many people at ETS helped make the study go. Laurence Shatkin and Amy Weber undertook most of the study of the content of career information resources. Katherine Kornhauser and Stephen Vail oversaw the data processing with endless successions of computer runs. Richard Murphy and Lola Appel did the first critical compilation of data. Howard Wainer did most of the analysis of Chapter IV, and Jerilee Grandy the analysis of student types that appears in various chapters. Lila Norris helped us through many analytical thickets. And Madeline Bara and Lynne Barton did much of the typing (including nerve-racking tables), or saw that it got done. Christine Sansone guided the report through countless variations in the word processor.

Robert Hoppock was, from beginning to end, the project consultant. His advice and service cannot be measured.

Finally, personnel in over 1,800 schools took the time to fill out difficult questionnaires. Nearly 5,000 students sacrificed the time necessary to respond to their survey instruments. Support from the schools went from the principals through the district superintendents and, in some cases, right up to the state superintendent. We owe them a lot.



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TABLE OF CONTENTS

| CHAPTE | PAC | Ξ |
|--------|---|----|
| Ι. | BACKGROUND | 1 |
| • • | Research Questions | 2 |
| | Subcontractor | 2 |
| | Sample Design | 2 |
| | Data Collection | 5 |
| | Completion Rates | 6 |
| | Analysis of Nonresponse | 7 |
| | Bias Due to Inclusion of Ineligible Schools | 9 |
| | Determination of Weights | 10 |
| II. | RESEARCH QUESTION Al | 19 |
| 11. | Types of Career Information Resources | 19 |
| | Categories of Resources Found Most Frequently | 19 |
| | Most Common Resources Within Categories | 20 |
| | The Content of Career Information Resources | 21 |
| | Publications | 22 |
| | Computerized Systems | 25 |
| | Audiovisual Materials | 27 |
| | Microforms | 29 |
| | Noncomputerized Sorting Materials | 30 |
| | School-Arranged Experiences | 30 |
| | Other Resources | 31 |
| | | |
| III. | RESEARCH OULSTION AZ | 49 |
| | Description Classification, and Evaluation | 50 |
| | A Preliminary Frame of Reference | 51 |
| | 1. Scope | 52 |
| | 2 Content of Occupational Information Resources | 57 |
| | 3 Structure of Occupational Information | 61 |
| | 4. Style | 66 |
| | 5 Procedures | 68 |
| | 6. Costs | 83 |
| | 7. Effects | 83 |
| | 8. Rationales for Intervention | 84 |
| | Models of Guidance for Career Decision-Making | 91 |
| | Summary | 92 |
| | Scope, Content, and Perceived Usefulness | 92 |
| | Standard and Fluid | 9: |
| | Structure | 94 |
| | Style | 95 |
| | Procedures | 95 |
| | Costs | 9 |
| | Effects | 9 |
| | Rationales for Intervention | 9 |
| | NOT TOUBLED AND AND SETTINGS. | |



| CHAPTE | PA ?A | .GE |
|--------|--|--------------|
| IV. | tendentation quantitatives in the second sec | 27 |
| | 18.01/015 01104-08/ | |
| | Bello01 1/p00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | .28 .29 |
| | belivery bybeed. Types | . 30 |
| | The Misself to the Research (1990) | |
| ν. | RESERVEN GOESTION BE | 149 |
| | head of duldance | 149 |
| | Responsibility for opecative meta-te-to- | 149 |
| | Activities of Suldance Soundelors | l 50 l 51 |
| | The Hallagemette of the Nevlew Tollegeon | 151 |
| | outles and indexes for befeering outlance management | 152 |
| | Other Management Activities | |
| VI. | REDERINON QUEDITOR BS | .59 |
| | necess to totalestation. | 59 |
| | McCess to bompaterized by brome | 61 |
| | Access to Audiovisual, Microfiche, and Noncomputerized | |
| | Soleing haterials | 62 |
| | Access to Experiencial Trograms | 63 |
| | Summary | 164 |
| VII. | RESEARCH QUESTION B4 | 179 |
| VIII. | RESEARCH QUESTION Cl | 81 |
| VILI. | Frequency of Use | 81 |
| | Summary | 185 |
| TV | RESEARCH QUESTION C2 | 195 |
| IX. | KESEAKON VOESTION OZ | 195 |
| | Designation of Types | 195 |
| | Type by Manuel of Resources sheeked | 196 |
| | | 196 |
| | Source 3: Principal or Assistant | 197 |
| | Source 4: Librarian | 197 |
| | Source 5: Friends | 197 |
| | Source 6: Someone Else at School | 197 |
| | Source 7: Parents/Relatives | 197 |
| | Source of training out of school | 198 |
| | Juli Ce) Julieone In Bille of Work | 198 |
| | Source 10 Employment Service | 198 |
| | Source 11. Someone Else Sansale Sansale | 198 |
| | Source 12: Books, Magazines, Pamphlets, Reports | 198 |
| | Source 13. (Tims, tapes, odoseeres | 199 |
| | Source 14 microrione | 199 |
| | Source 19: compacer | 199 |
| | Julice 10. Office materials at officer | 199 |
| | Judice 1/ Ludice Distract | 199 |
| | boutee 10. outcer center | 200 200 |
| | Source 19: State Employment Office | 4 U U |



i

| CHAPTE | CR CONTRACTOR CONTRACT | PAGE |
|--------|--|-------|
| | Source 20: Other Place Outside School | . 200 |
| | Source 21: Career Days | |
| | Source 22: Career Clubs | . 201 |
| | Source 23: Classes | . 201 |
| | Source 24: Job Shadowing | . 201 |
| | Source 25: Visits to Work Sites | . 201 |
| | Source 26: Work-Study | |
| | Source 27: Volunteer Work | |
| | Source 28: Former Students | |
| | Source 29: Workers or Employers | |
| | Source 30: Other Activities Arranged by the School | |
| | Source 31: Work | |
| | Source 32: Watching People at Work | |
| | | |
| | Source 33: TV | |
| | Source 34: Movies | |
| | Source 35: Clubs | |
| | Source 36: General Reading | |
| | Source 37: Other Activities Outside School | |
| | Summary to Response to Question 48 | |
| | Sources of Specific Topics of Information | |
| | Summary for Question C2 | . 206 |
| Χ. | RESEARCH QUESTIONS C3 AND C4 | . 219 |
| | Specific Kinds of Information Sought | |
| | Motivation for Seeking Occupational Information | |
| | Type of Student That Is Affected by Various Motivators | . 221 |
| | Purposes for Using the Resources | . 222 |
| | Summary | |
| XI. | RESEARCH QUESTION D1 | . 229 |
| XI. | Formal Resources in an External Center | |
| | Formal Resources in an external center | |
| | External Resources Used by Students | |
| | Summary | . 23 |
| XII. | RESEARCH QUESTION D2 | . 235 |
| | External Resources As Motivators | . 235 |
| | Frequency of Talks with Informal Resources | . 235 |
| | Frequency of Access of External Resources | . 237 |
| | Students' Feelings About the Adequacy of Their School | |
| | Resources | . 238 |
| | Summary | |
| XIII. | RESEARCH QUESTION D3 | . 243 |
| v T 11 | IMPLICATIONS | . 24 |
| XIV. | | |
| | Availability of Resources: School Questionnaire | . 249 |
| | Quality of Resources | |
| | Use of Resources: Student Questionnaire | . 24 |



| CHAPTER | | PAGE |
|------------|---|----------------|
| | Providing a Context for Career Information | . 251 . 253 |
| REFERENCES | | . 257 |
| ABBREVIATI | ONS AND ACRONYMS | . 261 |
| APPENDIX A | : SCHOOL QUESTIONNAIRE | . 263 |
| APPENDIX B | : STUDENT QUESTIONNAIRE | . 287 |
| APPENDIX C | : RELATIONSHIP OF QUESTIONNAIRE ITEMS TO RESEARCH QUESTIONS . | . 311 |
| APPENDIX D | : RESPONSES TO SCHOOL QUESTIONNAIRE | . 325 |
| APPENDIX E | : RESPONSES TO STUDENT OUESTIONNAIRE | . 413 |



LIST OF TABLES

| TABL | .E | PAGE |
|------|---|------|
| 1. | Research Questions from the Request for Proposal | 12 |
| 2. | Types of Schools That Are Ineligible for the Population | 13 |
| 3. | Number of Schools and Secondary Students in the Population by | |
| | Stratum | 14 |
| 4. | Final Status of Schools After District Approval | 15 |
| 5. | Final Status of Schools for Which District Permission Was | |
| | Received | 16 |
| 6. | Completed Student Questionnaires by Stratum | 17 |
| 7. | Statistically Significant and Highly Significant Differences | |
| | Between Responding and Nonresponding Schools | 18 |
| 8. | Most Common Categories of Career Information Resources | 32 |
| 9. | Most Common Career Information Resources | 33 |
| 10. | Information Content of Publications, Items Al-B8 | 34 |
| 11. | Information Content of Publications, Items B9-F2 | 37 |
| 12. | Information Content of Computerized SystemsOccupational Realm | 40 |
| 13. | Content of Computerized Systemsthe Students' Realm | 43 |
| 14. | Acronyms of Computer Systems | 46 |
| 15. | Content of Three VIEW Systems Occupational Realm | 47 |
| 16. | Resources Recommended for Arousing Student Interest in Exploring | |
| | Occupational Information | 99 |
| 17. | Resources Recommended for Familiarizing Students with Occupations . | 100 |
| 18. | Resources Recommended for Detailed Information About a Familiar | |
| | Occupation | 101 |
| 19. | Resources Recommended for Suggesting Unfamiliar Occupations | 102 |
| 20. | Resources Recommended for Poor Readers | 103 |
| 21. | Resources Recommended for Selection of Suitable Programs for | |
| | College-Bound Students | 104 |
| 22. | Resources Recommended for Helping Noncollege-Bound Students | |
| | Select Programs | 105 |
| 23. | Resources Recommended for Information About Entry Requirements | 106 |
| 24. | Resources Recommended for Information About Employment Outlook | 107 |
| 25. | Resources Recommended for Information About Aptitudes, Abilities, | |
| | and Skills | 108 |
| 26. | Resources Recommended for Information About Work Activities | 109 |
| 27. | Resources Recommended for Information About the Work Environment | 110 |
| 28. | Resources Recommended for Information About Job Security | 111 |
| 29. | Resources Recommended for Information About Opportunities for | |
| | Helping Others | 112 |
| 30. | Resources Recommended for Information About Accessibility to the | |
| | Handicapped | 113 |
| 31. | Resources Recommended for Information About Up-to-Date Local | |
| | Wages and Salaries | 114 |
| 32. | Resources Recommended for Information About Occupations That Meet | |
| | Students' Specifications | 115 |
| 33. | Resource Deemed Most Valuable | 116 |
| 34. | | 117 |



| TAB | LE | PAGE |
|------------|---|--------------|
| 35. | Satisfaction in Amount of Information Retrieved from Publications, | |
| | Computers, Microfiche, and Card Sorts | 118 |
| 36. | Comprehensibility of Information Received from Publications. | |
| | Computers, Microfiche, and Card Sorts | 119 |
| 37. | Satisfaction in Amount of Information Retrieved from Publications, | |
| | Computers, Microfiche, and Card Sorts, by Stratum | 120 |
| 38. | Comprehensibility of Information Received from Publications, | 110 |
| | Computers, Microfiche, and Card Sorts, by Stratum | 121 |
| 39. | Four Approaches to Career Guidance | 121 |
| 40. | Distribution of Schools by Demographic Tyre | 133 |
| 41. | The Most Common Demographic Types by Stratum | 137 |
| 42. | Types of Career Information Delivery Systems | 134 |
| 43. | The Most Common Delivery Types by Stratum | 135 |
| 44. | Demographic Type Versus Delivery Type for Stratum 1 | 136 |
| 45. | Demographic Type Versus Delivery Type for Stratum 1 | 137 |
| 46. | Demographic Type Versus Delivery Type for Stratum 2 | 138 |
| 47. | Demographic Type Versus Delivery Type for Stratum 3 | 139 |
| ٠,. | Patterns of Delivery Type That Are Among the Most "Popular" | |
| 48. | Demographic Types, Stratum 1 | 140 |
| 40. 49. | Staff Responsible for Management of Career Information Resources | 153 |
| 47. | Activities of Professional Counselors When Functioning As Career | |
| 50. | Information Resources | 154 |
| 50. | Membership of Committee To Review Occupational Information | |
| <i>c</i> , | Materials | 155 |
| 51. | Guides and Indexes Used by Schools for Ordering or Selecting | |
| | Guidance Materials | 156 |
| 52. | Frequency of Review for Obsolescence in Career Information | |
| | Resources | 157 |
| 53. | Methods of Cataloging Resources | 166 |
| 54. | Number of the Latest Edition of the Occupational Outlook Handbook | |
| | at the School | 167 |
| 55. | Methods of Scheduling Students To Use Computer Terminals | 168 |
| 56. | School Staff Who Help Students Use the Computer | 169 |
| 57. | Number of Terminals Available for Student Use | 170 |
| 58. | Number of Hours Terminals Open for Use and Used | 171 |
| 59. | Methods of Scheduling Students To Use Audiovisual, Microfiche, | |
| | or Noncomputerized Sorting Materials | 172 |
| 50. | Number of Audiovisual Devices, Microfiche Viewers, and Sets of | |
| | Needlesorts Available for Student Use | 173 |
| 51. | Number of Hours Available and Actual Use by Students of Audio- | - |
| | visual Devices, Microfiche Viewers, and Needlesorts | 174 |
| 52. | Student Use As a Percentage of Availability for Audiovisual | 1 , 4 |
| | Devices, Microfiche Viewers and Sets of Needlesorts | 175 |
| 53. | Methods of Informing Students About School-Arranged Experiences | 176 |
| 54. | Methods of Following up Students Who Participate in School- | 1/0 |
| | Arranged Experiences | 1 7 7 |
| 55. | Frequency of Use of Various Publications by Students | 187 |
| 66. | Frequency of Use of Computers | |
| 57. | Mean Percentage of Usage of Computer Systems Devoted to Students | 188 |
| . , . | Without Assistance Students with Assistance 3 Co. Co. | |
| | Without Assistance, Students with Assistance, and Staff for Transmittal to Students | 100 |
| | TOT TRANSMITTAL TO STUDENTS | 189 |



| TABL | ,E | PAGE |
|------|--|------|
| 68. | Frequency of Use of Microfiche | 190 |
| 69. | Frequency of Use of Sorting Cards | 191 |
| 70. | Frequency of Talks with Counselors About Various Subjects | 192 |
| 71. | Number and Percentage of Stidents Who Have Participated in | |
| | Experiential Activities | 193 |
| 72. | Types of Students Who Use Various Resources with More Than Average | |
| | Frequency and Less Than Average Frequency | 207 |
| 73. | Most Commonly Cited Resources for Five Items of Occupational | |
| | Information | 212 |
| 74. | Resources Favored More Than Average by Various Students for | |
| | Information About Education and Training Activities | 213 |
| 75. | Resources Favored More Than Average by Various Students for | |
| | Information About Wages and Salaries | 214 |
| 76. | Resources Favored More Than Average by Various Students for | |
| | Information About Job Security | 215 |
| 77. | Resources Favored More Than Average by Various Students for | |
| | Information About Opportunities To Help Others | 216 |
| 78. | Resources Favored More Than Average by Various Students for | |
| | Information About Usual Work Activities of a Job | 217 |
| 79. | Information Sought from Resources in All Strata | 225 |
| 80. | How Students Learned That Various Resources Were Available, | |
| | All Strata | 226 |
| 81. | Reason for Seeking Occupational Information, All Stata | 227 |
| 82. | Effectiveness of Various Motivators in Getting Students To Use | |
| | Occupational Information | 228 |
| 83. | Auspices Under Which External Resource Centers Are Maintained | 233 |
| 84. | Types of Resources Available in the External Centers | 234 |
| 85. | Frequency with Which Students Have Talked About Occupations with | |
| | Various Informal Resources | 240 |
| 86. | Frequency of Student Use of External Resources | 241 |
| 87. | Students' Perception of the Sufficiency of Their School Resources | |
| | To Supply All Desired Information, All Strata | 242 |



LIST OF FIGURES

| IGURE | PAGE |
|---|-------|
| . Illustration of How a Thesaurus of Verbs Might Be Developed for Categorizing Work Activities at Three Levels. High, Medium, and Low | . 123 |
| . Graph of Number of School Types Versus Percentage of Schools They Represent | . 141 |
| . P-P Plot of Demographic Types of Stratum 1 Versus Stratum 2 | . 142 |
| . P-P Plot of Demographic Types of Stratum 1 Versus Stratum 3 | . 143 |
| . P-P Plot of Demographic Types of Stratum 2 Versus Stratum 3 | . 144 |
| P-P Plot of Delivery Types of Stratum 1 Versus Stratum 2 | . 145 |
| . P-P Plot of Delivery Types of Stratum 1 Versus Stratum 3 | . 146 |
| D D Dlot of Dolivery Types of Stratum ? Versus Stratum ? | . 147 |



x 15

CHAPTER I

BACKGROUND

This report presents the findings for the first of two linked studies conducted by Educational Testing Service for the National Institute of Education (NIE) in joint sponsorship with the National Occupational Information Coordinating Committee (NOICC). NOICC was established under Section 1G1(8) of the Vocational Education Act of 1963, as amended by Title II of P.L. 94-482. It consists of the Commissioner of Education, the Administrator of the National Center for Educational Statistics, the Commissioner of Labor Statistics, and the Assistant Secretary for Employment and Training. NOICC's mission, as defined by the original legislation and various amendments, has been translated into objectives that may be summarized as follows:

- o To improve coordination between and communication among educators and those who plan training and research and information systems.
- o To develop and implement an occupational information system with supply/demand data, uniform definitions and classification systems, standardized estimating procedures, and delivery systems designed for planners, decision—makers, and students or trainees.
- o To assist in the planning and implementation of each State Occupational Information Coordinating Committee (SOICC).
- o To give special attention to the problems of unemployed youth.

In 1977 the NOICC Steering Committee agreed to fund a number of research activities proposed by the Office of Youth Programs of the U.S. Department of Labor's Employment and Training Administration. Among the programs were two that seemed particularly relevant to NOICC's legislative mandate: (1) a national survey of how career information is being provided at the secondary school level and what its quality and value are, and (2) a comparative assessment of the effectiveness of different information delivery systems on the career awareness of youth.

Since the missions of NOICC and NIE converged with respect to career information and career development, NOICC agreed to transfer funds to NIE for the purpose of conducting research in support of NOICC's general concerns, and NIE agreed to undertake such research in pursuit of its aims. Thus the request for proposal (RFP) that grew out of this interagency collaboration combined in a single project the interests of the U.S. Department of Labor's Youth Program, NOICC, and NIE. Educational Testing Service (ETS) among others responded to the RFP and was ultimately awarded the contract.

The RFP and ETS's response proposed two consecutive studies over a period of two years (since extended to 30 months) to seek answers to these global questions:

1. What career information is currently being disseminated to secondary school students, how is it being provided, what is the quality of such information, and what is its value to students?



1.

2. What is the effectiveness of alternative types of career information delivery systems on the career awareness of secondary school students?

The first question was to be answered in the first study (Study 1) and the second in its successor (Study 2). Only Study 1 will be considered in this report.

Research Questions

The research questions for Study 1 as excerpted from the RFP are listed in Table 1.* Question bl (Where are the career resources physically located?) and part of b3 (When and under what circumstances can these resources be used by students?) were dropped because they were too unwieldy to handle through questionnaires as proposed in the sample design. Most of the questions are the sort that can be answered by surveys, and the sample design was based on that idea.

Subcontractor

Mathematica Policy Research, Inc., of Princeton, New Jersey, collaborated with ETS in the design of Study I and was the subcontractor for the collection of data. Mathematica's final report on their activities (Barbara Phillips, Career Information Systems in Secondary Schools: Final Report, September 1980) discusses the sample design, selection of the sample, collection and treatment of data, and analysis of nonresponse in complete detail. The report is too long for inclusion here. The remainder of this chapter summarizes its essential information. Readers who want to pursue in depth the procedures for conducting the survey and processing the data should make arrangements with ETS to see the full Mathematica report.

Sample Design

Sample frame. The proposal called for a sample of approximately 10 percent of all public secondary schools with grades 10, 11, and 12, with a concurrent sample of a small number of students in a subset of these schools. The sample frame selected for the survey was an extract of the school and district files of Market Data Retrieval (MDR), a commercial firm that produces educational mailing lists. This extract contained records for 20,297 schools, of which 18,066 had grades 10, 11, or 12, and 2,231 had a special designation. Investigation revealed that schools labeled as special were devoted to atypical populations, such as the handicapped, the homebound, or the incarcerated. These schools were excluded



^{*}Tables and figures appear at the end of each chapter.

from the sample because the intent of the survey was to study career information resources available to the general population of high school youth. Table 2 lists the types of schools that were excluded. Following the decision to exclude special schools, Mathematica examined the entire list of the 18,066 remaining and eliminated 210 with names that indicated service primarily to the handicapped or residential status. Thus the sample frame was reduced to 17,856.

The school sample. Because of the government's particular interest in the employment problems of poor urban youth, NIE/NOICC sought a sample design that would provide accurate estimates of the resources available to this population as well as accurate national estimates. Mathematica responded with a design dividing the school population into three strata, as follows:

Stratum I included all schools in the central city of a standard metropolitan statistical area (SMSA) as defined in the 1970 Census, with 12 percent or more of their student bodies living in poverty as recorded on the MDR tape in accordance with the standard federal poverty guidelines (Orshansky index) as applied to the 1970 income data for the area served by the school. The 12 percent level was chosen because it yielded a reasonable division of schools with respect to poverty.

Stratum 2 contained schools in nonmetropolitan areas, as classified by the 1970 Census, regardless of the poverty status of their students. This stratum would provide information about rural youth, another concern of the government's.

Stratum 3 included all remaining schools, schools within SMSA's but not in the central city and schools in the central city areas with less than 12 percent poverty.

The 17,856 school were distributed among the three strata as shown in Table 3, with approxima ely 10 percent in Stratum 1, 60 percent in Stratum 2, and 30 percent in Stratum 3. Upon examining the distribution, Mathematica weighed the advantages and disadvantages of alternative sampling plans, particularly proportionate sampling within strata vs. drawing samples of the same size from each stratum. Finding that the standard error of estimate was only slightly less accurate with equal sample size than with proportionate sampling, Mathematica recommended the equal size design, with consequent oversampling of Stratum 1 (center city, high poverty), in order to produce the most accurate data for the population of paramount interest. The recommendation was seconded by ETS and approved by the Research Advisory Council for the study, and subsequently accepted by NIE/NOICC. If 596 schools were selected from each stratum, the goal of a 10 percent sample would be achieved. Mathematica's experience with a mail survey of this type, where so many people in the decision-making command had power to disallow a school's participation and where the likelihood existed that additional ineligible schools would be uncovered, led Mathematica to expect a completion



-3-

rate of about 50 percent (that is, about half the schools invited to participate would complete questionnaires). Consequently, 1,192 (596 x 2) schools were selected in each stratum.

To select the sample schools, Mathematica classified all schools in the sample frame in their appropriate strata. Each school was then assigned a random number from a computerized list of random numbers. The file was then sorted by strata and within each stratum by random number. The first 1,192 schools in each stratum were chosen for the sample.

The student sample. The proposal called for a sample of 3,528 students from 147 schools. Information directly from students was necessary to answer research questions about why students used resources and what the students were looking for (questions C3 and 4), as well as to help realize the general objectives of the study. The practical constraints of doing a survey of this size within a limited budget led to the choice of a sample design of eight scudents from each of the three grades in each of the 147 schools and an equal number of schools (49) in each stratum (resulting in deliberate oversampling of Stratum 1). Mathematica again expected a completion of only 50 percent, and consequently selected 98 sample schools to be approached in each stratum.

The schools for the student sample were drawn from the pool already selected for the school survey. (There was not enough time to permit selection from the schools in that pool that actually responded to the survey instrument.) The schools were chosen systematically, since the pool had already been listed in a random sequence. The sampling interval for each stratum $(k_i, i=1,3)$ was determined by dividing the total secondary enrollment of all schools in the stratum by 98, the number of schools to be chosen. Then a computer algorithm was used that accumulated enrollment across schools; when the enrollment reached k_i , that school was selected. This method of selecting proportionally to enrollment assured that each student within a stratum had an equal chance of being chosen.

Research instruments. The school and student instruments are reproduced in Appendixes A and B respectively. The instruments were developed by Mathematica and ETS in consultation with the project Research Advisory Council and the NIE Technical Advisory Panel. In addition, they were reviewed during the development process by the Committee on Evaluation and Information Services (CEIS) for the Council of Chief State School Officers. Upon receiving a positive recommendation from CEIS, the instruments and sample design were submitted to the Federal Education Data Acquisition Council (FEDAC) in accordance with government regulations and were ultimately approved by that body.

The need to limit the burden on the schools forced a few compromises during this developmental progress. But on the whole the instruments were very little altered from what had originally been proposed.



-4-

Relationship to research questions. The main intent of the questionnaires was to provide data for answering the research questions shown in Table 1. The relationship of each questionnaire item to the research questions is shown in the two tables in Appendix C. Some of the questions cannot be fully answered by survey instruments, namely a2, d3, and the second part of al. The first two concern the quality of the information in the resources, and the third concerns their content. Although some of the items contribute to answering these questions, ET3 made a separate study of quality and content. The findings are discussed later in this report.

Data Collection

State, district, and school cooperation. In late October of 1979, CEIS formally recommended that the Council of Chief State School Officers assent to the study. NIE, through Mathematica as its agent, immediately mailed letters to the top education officials in each state, describing the study, explaining its importance, and soliciting their permission to approach the selected schools and their cooperation in doing so. Eventually all 50 states agreed. Mathematica then sought the approval of district superintendents and solicited their help in determining the eligibility of all the schools selected from their district. Finally, the principals themselves were approached either by Mathematica or, in accordance with district or state policy, by someone in the district superintendent's office or a state office.

The approval process was much more complicated than this meager description implies. A great many agencies had to be reached by telephone when they failed to acknowledge the original letter. Procedures varied from state to state and district to district. Some states reserved to themselves the task of notifying districts, others gladly turned the whole matter over to Mathematica. One state insisted on getting approval by a planning agency that was unwilling to act before FEDAC had officially accepted the study. Information about a school or district was sometimes incomplete on the MDR tape, and states or districts were asked to supply the missing data. Approval was often contingent on filling out long, tedious forms. Obviously, the study demanded and received much cooperation among many different agencies and individuals.

Since the schedule for the mailout was February 25, 1980, no district approvals were accepted after mid-February. By then, district approval had been obtained to approach 2,773 schools, or 78 percent of the 3,576 drawn for the sample. Table 4 shows the status of schools with respect to district approval.

Data collection, school questionnaire. Packets containing the instruments were mailed to the principals of the selected schools in the consenting districts or to the person named by the district to conduct the survey. Some states and districts chose to distribute the instruments themselves, and their instructions were followed. A week after the mailout, a postcard was sent thanking the school



-5-

for having completed the questionnaire or urging it to do so as the case might be. Two weeks after that mailing, on March 17, schools that still had not returned a questionnaire were sent another packet by certified mail. When the district chose to serve as distributor to the schools, follow-up telephone calls and replacement packets were directed to the responsible person named by the district superintendent.

Data collection, student questionnaire. The procedures for the student-sample schools were somewhat different. The packet included an approval that asked the school to name a contact person for the survey and to tell how the school's check (for \$50.00) for participation should be made out. There was no second mailing to student-sample schools. Thank-you/reminder cards were sent on March 3. Schools that had not returned approval cards three weeks after the first mailing were called and replacement materials were sent only to schools that had mislaid the originals. A final telephone follow-up was made in mid-April to those schools that had consented to participate but had tailed to return completed questionnaires.

Completion Rates

School questionnaire. Table 5 shows the completion rate for the school questionnaire for schools in consenting districts. A little over 68 percent (1,894) of the schools responded in time to be counted, while 31 percent (35 + 825) refused or did not return the instrument. A few schools turned out to be ineligible despite all efforts to eliminate them from the sample before the first mailout.

If the information in Tables 4 and 5 is combined and if the ineligibles are dropped from both tables, it will be seen that 1,894 schools (55.5 percent) completed questionnaires from the original pool of 3,412 eligible schools (3,576-145-19) that were originally approached, 1,518 schools refused outright or failed to respond.

The rate of response was unfortunately not uniform in all three strata. In Stratum 1 (center city, high poverty), 540 schools responded, making up 29 percent of the total sample, instead of the 33.3 percent that was sought. In Strata 2 and 3 (nonmetropolitan and metropolitan low poverty, respectively) 668 and 686 schools responded—about 35 percent in each case. If ineligible schools are eliminated, the response rate in all three strata was over 50 percent. The difference in response rates in the three strata is statistically significant, a matter that is discussed later in this Chapter.

Student questionnaire. Table 6 shows completion rate for the student



-6-

questionnaire by stratum. Both the number of questionnaires and the number of schools are given. As the table indicates, 4,883 questionnaires were returned from a total of 155 schools distributed in approximately equal proportions across strata. There were no statistically significant differences by strata in the number of schools returning student questionnaires. The 155 schools are 67 percent of the 232 student-sample schools for which permission had been granted by the district. There was much more intensive telephone follow-up for the student questionnaire than for the school one, resulting in comparable completion rates.

The lower portion of Table 6 under the heading "Matched Set" shows the number of schools where both school and student questionnaires were completed.

Analysis of Nonresponse

School questionnaire. At the request of ETS, Mathematica made a separate study of the extent of possible bias due to nonresponse. Questionnaire surveys, which are notoriously subject to low response rates, are vulnerable to the charge that respondents were a self-selected rather than representative group. For nonresponse to cause significant bias, there must be both a large proportion of nonrespondents and important differences between them and respondents on variables of interest. Nonrespondents include two groups: schools selected for the sample but for which permission was denied by the district and schools that received questionnaires but did not complete them.

Data for the analysis of nonresponse came partly from the MDR sample frame tape and partly from telephone interviews with a selection of nonresponding schools. The tape yielded information about enrollment, expenditures, grade span, metropolitan status, and poverty status. All of the eligible schools selected for the original sample could be compared on these characteristics. The telephone interview with a probability sample of 267 nonresponding schools (89 in each stratum) yielded information about the career information resources of the schools. Of the 289 schools telephoned, 255 (96 percent) completed the interview. No interviews could be conducted with schools in districts where permission had been denied, since such interviews would have violated agreements made with FEDAC and the Council of Chief State School Officers during the clearance process. Consequently, some of the nonrespondents—those for which district permission was never granted—cannot be compared to respondents with respect to career information resources.

Table 7 summarizes the result of the analysis. An "R" in a cell means respondent schools were significantly different from the nonresponding schools with respect to the variable associated with that cell—they had higher enrollment or more expenditure or a greater number of full—time professional staff.



-7-

"NR" indicates the reverse situation—the nonresponding schools were significantly more. All differences were significant at the .01 level except for grade span, number of full—time professionals, and presence of a director of career guidance, which were significant at the .05 level. It must be borne in mind that the nonrespondents on the first set of variables ("MDR tape") include a larger group than the nonrespondents on the second set ("telephone sample"). The latter group does not include schools that never received a questionnaire because permission to participate was denied by the district.

Table 7 shows that within each stratum differences exist between respondents and nonrespondents. Moreover, Strata 1 and 3 look different from each other with regard to total school expenditures per pupil. In Stratum 1 nonresponding schools had greater expenditures in both the school and the district; in Stratum 3 it is the responding schools that spend more. In Stratum 2, which contains rural schools, the nonrespondents are more likely to include schools with elementary grades. In Strata 2 and 3 respondents are more likely to have on their staff a director of career guidance or person with equivalent responsibility. In Stratum 1 respondents are likely to have greater numbers of full-time guidance professionals.

Mathematica also studied characteristics of schools as they reacted to the response process. This study consisted of, first, an analysis of the differences between schools for which district permission was granted and those for which it was not; second, an analysis of schools that, given district permission, completed a questionnaire and those that did not; and, third, an analysis of differences between schools that responded to the first wave of questionnaires and those that responded to the second wave. The purpose of the last analysis was to test the assumption that nonrespondents more closely resemble late responders than early responders.

In each analysis differences were found between the two groups, and the assumption tested in the third analysis was only partially confirmed. The differences, which are discussed in Mathematica's final report, will not be tabulated in this summary chapter. Although statistically significant, they were only a small fraction of a standard deviation and hence unlikely to influence the results appreciably.

In determining the weights to correct for the stratified sample design, ETS statisticians reviewed Mathematica's procedures and findings to see what adjustment, if any, should be made for nonresponse bias. This matter is discussed below.

Student questionnaire. The extent to which the student sample is representative of all students depends on the same considerations as the school sample. There is, in addition, another consideration, namely, whether a school followed the detailed instructions for selecting a random sample of its students.

In order to explore this last consideration, Mathematica called two students from each of the 142 schools that had supplied information on student identity. The students were asked how their schools had selected them. The categories of



-8-

responses for the 142 schools are as follows:

| Both random | 74 |
|---------------------------------|----|
| Both nonrandom | 20 |
| Both questionable | 1 |
| One random, one nonrandom | 18 |
| One random, one don't know | 11 |
| One random, one questionable | 9 |
| Both don't know | 1 |
| One nonrandom, one questionable | 8 |

It is clear that at least 20 percent of the responding schools used non-random procedures in selecting students. Unfortunately, there is no way to tell the full extent of nonrandom selection or the amount or direction of bias that may have been introduced into the sample because of it. A sample selected nonrandomly is not necessarily misrepresentative of the students at the school.

A great number of different assumptions would have to be made before weights could be assigned to adjust the student sample for representativeness. After examining all the issues, ETS concluded that there was not enough evidence to proceed and that the attempt to weight the sample was as likely to aggravate the situation as to improve it. Consequently, in this report the school sample is treated simply as a large number of students who responded to the question-naire. Although there is a strong temptation to generalize to other groups—students within each stratum and students across the nation—such generalizations might be misleading. This is not to say that data from the student sample are not useful.

Bias Due to Inclusion of Ineligible Schools

Findings might be biased if ineligible schools were inadvertently included in the sample. Pains were taken to eliminate such schools before the sample was drawn on the basis of information on the MDR tape and by calls to schools with suspicious names.

When Mathematica wrote the district superintendents for permission to proceed, they named the sample schools in the district and asked the superintendents to identify the ineligible ones. Telephone appeals to nonresponding districts asked the same question. Later, when nonresponding schools were called, they were asked about their eligibility. Finally the schools that were called for the study of nonresponse were also asked about eligibility. All of these efforts necessarily took place after the sample had been drawn.

These activities revealed that ineligible schools had indeed been in the sample. The numbers are not negligible, consisting of about eight percent of the schools about which information was received after the sample was drawn. Also they are not distributed uniformly by stratum--58.5 percent of the 164 schools found to be ineligible were in Stratum 1, 11.6 percent in Stratum 2,



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and 29.8 percent in Stratum 3. Finally, since follow-up questions were forbidden to districts that had refused to participate, information about the proportion of ineligible schools is confined to districts for which permission was granted.

All of these matters were evaluated in determining weights for the derivation of national estimates for the school instruments.

Determination of Weights

Weights to be applied to each stratum had to account for the fact that the sampling was stratified by stratum, that ineligible schools were included in the sample, and that nonrespondent schools differed (in a statistical sense) from respondents.

School instrument. The weights to correct for the fact that samples of equal size were chosen from each stratum can be derived by a simple formula. The weight W_i for stratum \underline{i} can be expressed as

N₁

where N is the number of schools in the stratum and N is the total number of schools. The weights (see Table 3 for the N's) are

Stratum 1 .095 Stratum 2 .094 Stratum 3 .311

These weights must be modified to correct for the fact that the sample contained ineligible schools. The proportion of schools in the sample as a whole cannot be determined with precision (wing to the fact that follow-up calls were not possible to districts where permission had been denied. However, it is reasonable to assume that the proportions of ineligible schools found among those that were followed up in each stratum are the best estimate of the proportion in the total population in each stratum. This strategy produces new population estimates as follows:

| | Original estimate | Revised estimate |
|-----------|-------------------|------------------|
| Stratum 1 | 1,697 | 1,521 |
| Stratum 2 | 10,599 | 10,396 |
| Stratum 3 | 5,560 | 5,288 |
| Total | 17,856 | 17,209 |



The revised weights are as follows:

| | | Original estimate | Revised estimate |
|---------|---|-------------------|------------------|
| Stratum | 1 | .095 | .088 |
| Stratum | 2 | . 594 | .604 |
| Stratum | 3 | .311 | .307 |

These revisions are still roughly in the ratio of .1 to .6 to .3. They are, however, probably more precise.

The correction for response bias should take into account the degree of difference between respondents and nonrespondents as well as the fact that the differences are significant in a statistical sense. Differences that are of slight practical consequence may be statistically significant (i.e., unlikely to have occurred by chance). The differences uncovered in Mathematica's follow-up were indeed small in terms of standard deviations and percentage points. Furthermore, in the telephone survey the spokesman for the school was not necessarily the most knowledgeable person with respect to career information resources as was the case in the survey. Consequently, there is some uncertainty about the reliability of the follow-up information.

For all these reasons statisticians at ETS advised against further adjusting the data. It seems clear that if there is bias in the respondent group, it is in the direction of overestimating the true population values. Although methods for adjusting the estimates downward (e.g., the "hot-deck" method) could be used, ETS statisticians questioned whether the potential gain in precision if the adjustments were applied would be worth the risk of distortion if the assumptions underlying them were wrong. How much precision is necessary in this case? There seems to be no reason to believe that the adjusted estimates would be any more useful to NOICC and NIE than the unadjusted estimates. Therefore, national estimates in this report probably present a somewhat more optimistic picture than that which really exists. It is, nevertheless, a fair and useful representation.

Student instrument. As stated above, the numerous unknowns about the representativeness of the student sample persuaded ETS statisticians not to attempt to derive national estimates from it. To do so ran the risk of introducing more distortion than it would eliminate. Therefore, student data are summarized at the school level and are examined for relative results for students who responded. This is a large number of students from all regions of the nation; and even though it may not be a representative sample, the results are informative and useful.



-11-

Table 1 Research Questions From the Request for Proposal

- s. Types and quality of cersor information resources
 - 1. What are the various types of career information resources currently available in secondary schools and what kinds of information do they contain?
 - 2 What is the quality of information contained in these resources?
 - 3 What types of school have what types and quality of career information resources?
- b. Hanagement of and access to career information resources
 - 2 What school staff are responsible for these resources and what are their responsibilities?
 - 3. What arrangements must be made and by whom [for students to use these resources]?
 - 4. What types of schools have what management strangements for carear information resources?
- c. Use of career information resources
 - 1. Bow often are resources used by students? Does frequency of use vary by type of resource?
 - How often are resourcies used by a student? Does frequency of use differ for different categories of students?
 - 3 For what nurposes do students use the resources and what motivates these pur, oses?
 - 4. What specific kinds of information do students seek and obtain from these resources?
- d. Use of additional career information resources
 - 1. What resources do students use in career planning in addition to the resources of the school?
 - How frequently do students use these additional resources as compared to their use of the school'aresources?
 - 3 What is the quality of these additional resources as compared to the quality of the school's resources?



Question bl of the RFP was eliminated by agreement with NIE and NOICC The portion of b3 concerning the time and circumstances of use was also eliminated.

Table 2

Types of Schools That Are Ineligible for the Population

Schools for blind children

Schools for deaf children

Schools for orthopedically handicapped children

Schools for children with other handicaps

Schools for trainable mentally retarded children

Schools for educable mentally retarded children

Schools for aphasic children

Schools for exceptional children

Special education schools

Diagnostic schools for children with learning problems

Schools for pregnant girls

Hospital schools

Penal institution schools

Boarding schools

Homebound schools

Schools run by research institutions



Table 3 $\label{eq:Number of Schools} \mbox{Number of Schools and Secondary Students} \\ \mbox{in the Population by Stratum}^{\bf A}$

| | School | Students |
|---|--------|------------|
| trata | | |
| Center city, high poverty | 1,697 | 2,367,903 |
| Nonmetropolitan | 10,599 | 6,396,375 |
| Metropolitan fringe; center city, low poverty | 5,560 | 5,259,960 |
| OTAL | 17,856 | 14,024,238 |

^aIncludes some schools later determined to be ineligible.



Table 4

Final Statue of Schools After District Approval

| | All Sample Schools (Includes Student-Sample Schools) | Student-Sample Schools Only |
|----------------------|--|--------------------------------|
| Permission granted | 2,773 | 232 |
| Permission refused | 351 | 31 |
| School ineligible | 145 | 23 |
| No response received | 307 | 27 |
| TOTAL | 3,576 | 313 |
| | | |



Table 5

Final Status of Schools for Which
District Permission Was Received

| | Number | Percent |
|--------------------------------|--------|----------|
| Completed School Questionnaire | 1,894 | 68.30 |
| Ineligible | 19 | 0.69 |
| Refusal | 35 | 1.26 |
| No Response | 825 | 29.75 |
| TOTAL | 2,773 | 100.00 % |
| | | |



| | Center City High Poverty | Nommetropolitan | Metropolitan Fringe; Center City Low Poverty | Total |
|--------------------------------------|-----------------------------|-----------------|--|-------|
| tal | | | | |
| Number of Student Questionnaires | 1,598 | 1,555 | 1,730 | 4,883 |
| Number of Student- Sample Schools | 51 | 49 | 55 | 155 |
| atched Set | | | | |
| Number of Student Questionnaires | 1,534 | 1,555 | 1,720 | 4,809 |
| Number of Student- Sample Schools | 49 | 49 | 54 | 152 |



Table 7

Statistically Significant or Highly Significant Differences Between Responding and Nonresponding Schools

| | Stracum | | |
|---|---------------------------|----------------|----|
| Variable (MDR tape) b | 1 | 2 | 3 |
| Secondary enrollment (school) | $\mathbf{z}^{\mathbf{d}}$ | | R |
| Secondary enrollment per teacher | | | |
| Grade span | nr ^f | | |
| Expenditures per pupil (total, school) | MR. | | R |
| Instructional expenditures per pupil (school) | MR | | |
| Secondary enrollment (district) | | | NR |
| Expenditures per pupil (total, district) | NR | | R |
| Instructional expenditures par pupil (district) | NR | | |
| Poverty level | | | NR |
| Variable (telephone sample) c | | | |
| Enrollment grades 10-12 | | | |
| Percentages in urban, suburban, rural | _ | | |
| No. full-time equivalent professionals | R ^f | | |
| Presence of a director of career guidance | | R ^f | Rf |
| Availability of courses in career planning | | | R |
| Availability of terminals or printers for computerized guidance | | | |

Stratum 1 = center city, high poverty; 2 = nonmetropolitan, 3 = center city, low poverty and metropolitan fringe.



^bComparison on these variables included among nonrespondents the schools in districts where permission was denied.

 $^{^{\}rm C}{\rm Comparison}$ on these variables included smong nonrespondents only schools that received a questionnaire but did not return it.

 $^{^{\}rm d}{}^{\rm n}R^{\rm n}$ means that the responding achools were higher, had more of, or included lower grades than the nonrespondents.

 $^{^{}e}$ "NR" means nonrespondent schools were higher, had more of, or included lower grades than respondents

 $f_{p} < .05$. All others are p < .01.

CHAPTER II

RESEARCH QUESTION A1

Research question alis "What are the various types of career information resources currently available in secondary schools, and what kinds of information do they contain?" The following discussion will consider these two elements in order.

Types of Career Information Resources

The types of career information resources were determined provisionally before the survey actually began in order to make up the two questionnaires. Considerable research and experience went into the identification and selection of items for Question II of Part B of the school instrument. This listing may be considered an answer to the first part of the research question. The 13 categories of resources listed in Question II allowed schools to respond "Other" if they had resources that were not listed. The number of "Other" responses was quite small, ranging from a low of 0.90 percent for Category G (computerized systems) in Stratum 2 to a high of 14.14 percent for Category B (occupational briefs and kits) for Stratum 3. For most categories "Other" responses amounted to less than 10 percent of the number of schools in the stratum. Therefore, the items listed for Question II may be taken as the set of occupational information resources currently available in the schools. Appendix A contains the school questionnaire.

The remainder of this analysis of available resources will examine the schools' responses to Question II in order to see which category of resource and which resources within each category are found with greatest frequency.

Categories of Resources Found Most Frequently

Table 8 shows for each stratum the number of schools that indicated they had one or more of the resources subsumed by the 13 categories listed for Question 11. The total number of schools in a stratum minus the number of schools that did not respond to any item in the category was taken as the number of schools that had at least one of the category items. The percentages for the national estimates, which were derived by applying the stratum weights described previously, were computed as 100 minus the national estimate of "No response."

Table 8 shows considerable uniformity across strata. In every stratum, bound references (Category A) are the most common resource, followed by school-arranged experiences and occupational briefs and kits (Categories K and B). In every stratum the seven most common resources are the same,



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and rank in almost exactly the same order: A, K, B, M, F, C, and H. Similarly, simulations, noncomputerized sorting materials, and computerized systems (Categories L, J, and G) are the least common, although not always in that order. It should be noted that the three most "popular" categories contain the most items, increasing the likelihood that a school would have at least one of the items on the list. Also, Category A includes the Occupational Outlook Handbook (OOH) and the Dictionary of Occupational Titles (DOT), the two most prevalent items in the whole list.

The relative rarity of computerized systems is not surprising. These resources are new and sophisticated compared with books or audiovisual materials, and they are expensive in terms of capital outlay (though not in terms of cost per student contact hour). They are least common in Stratum 2, where only 16 percent of the schools report access to such a system, as opposed to 28 percent for Stratum 1 and 38 percent for Stratum 3. Again, this is not an unexpected result. Stratum 2 is more rural than the other two strata; access to computer networks is presumably more difficult in this stratum than in urban areas. Also, schools in Stratum 2 tended to spend less for guidance materials than did schools in the other strata, making it less likely that they could or would get a computerized system.

Also noteworthy is the fact that schools in Stratum 2 rely less than do schools in the other two strata on book series and lists of employers (Categories D and E). Stratum 2 is 10 percentage points below Stratum 1 on the former and 20 points on the latter. Stratum 2 is more rural than the other two, and one may speculate that employers are more scattered, making lists of employers less useful to students in high schools. It is hard to tell why there should be fewer series of books in Stratum 2.

Most Common Resources within Categories

The number of resources within each category varies from one for Category L (simulations) to 14 for Category B (occupational briefs and kits). Which of these resources are found most frequently in each stratum? Among schools that have resources of a given category, which resource do they favor most? For example, if we look only at schools with computer-based systems, which systems occur most often?

Table 9 answers both of these questions. To be included in the table, a resource must be present in 50 percent or more of the schools in at least one of the strata that have resources of that category. To use computer-based systems once again as an example, we see that G5 (Guidance Information System or GIS) was found in 138 schools in Stratum 3. Although this was only 20 percent of all the schools in the stratum, it was 53 percent of the 262 schools that had a resource in the computer category. Consequently, G5 is included in the table even though it did not reach the 50 percent mark in either Stratum 1 or 2. The percentage figures in the last column are the national estimates for



-20-

the sample as a whole, not for the subsets of schools that had resources of the various categories.

There is again considerable uniformity between the strata. The prevalence of the $\frac{OOH}{OOH}$, and conferences with counselors is noteworthy; these are the top three resources in each stratum when judged as percentages of the stratum as a whole. The lists for the "top ten" are almost identical for each stratum, although the order of 4-10 is different.

There are differences, too. Stratum 2 generally contains fewer resources when judged by either the stratum or category percentage. It is 10 percentage points or more behind Strata 1 and 3 on the DOT (A2), the Encyclopedia of Careers (A4), Career World (C1), Your Future in ... (D3), and directories of businesses (El). It is 21 percentage points lower on school-prepared lists of employers (E2), exploratory work experience (K3), and assistance from staff other than counselors (M2). We also note that in Strata 1 and 3, GIS was more common than a state system in the computer category; in Stratum 2 the situation is reversed. GIS is a commercial system marketed by TimeShare. One may speculate that the difference in cost between GIS and a state system makes the latter more attractive to schools in Stratum 2, which tends to have fewer resources of any sort. The situation with respect to computers is not at all clear, however. At the time of the survey, Ohio, Wisconsin, and Alabama had state systems based on GIS. Some schools in those states may have said they had GIS, others their state system, and still others both. Similar ambiguity may exist with the item "your state system." Fourteen states have systems based on (Oregon) Career Information System content. Schools in these states may have checked both "CIS" and "your state system" when in fact they have only one.

The Content of Career Information Resources

The conceptual framework that was prepared for this study (Chapman, 1979) developed the idea that career decision-making involves two realms, the decision-maker and the objects of the decision, i.e., occupations. Decisionmakers, in their realm, bring to the decision various values, abilities, aptitudes, and physical as well as psychological resources. Occupations, in their realm, offer various rewards in their capacity to satisfy values, and they demand various aptitudes and abilities, and outlays of resources to attain them. Unfortunately, the two realms are not mirror images of each other. No occupation will ever fully satisfy every one of the decision-maker's values while drawing fully on his or her ability, aptitude, and fund of resources. Since no perfect marriage is possible, the aim of occupational choice is to find the option that provides the maximum attainable satisfaction while remaining within reach of aptitudes, abilities, and resources. If decisionmakers are to decide by means of rational processes, they need information about both realms. Knowledge of self directs the search for information about occupations and the assessment of it. Knowledge of occupations allows the decision to be selective.



-21-

In this model of decision—making, the "content" of career information resources must inevitably include some aspects of decision—makers. It is not enough to say that content consists of facts about occupations.

Obviously, it is not possible in this report to consider the content of individual students. Therefore, in our examination of the "self" side of content, we will look at whatever apparatus the career information resource may have for bringing the content of the decision—maker's realm into juxtaposition with the content of the realm of occupational information. For publications such apparatus is almost wholly absent; for other resources, such as computer systems and work experience, it is a fundamental element in the rationale for using the resource.

Another characteristic of content is that it varies with the type of resource and the purpose it was designed for. Clearly, the content of the OOH differs from the content of a job-site tour. Marshall McLuhan's observation that the medium is the message contains more than a little truth when applied to occupational information.

In this section of the report it will be convenient to look at content by media, grouping Categories A-F as a single medium--publications. Each of the other categories is a distinct medium and will be considered separately.

Publications

The fixed format of the print medium affords very little scope for dealing simultaneously with content in the realm of the student and the realm of occupations. The items in categories A-F are all publications which deal with information about occupations. A few of the items make minimal attempts to bridge the realms of the decision-maker and the object of the decision by grouping occupations and presenting the groups in a table of contents. Readers can then use the table of contents to find groups which may or may not be related to their own interests or personal characteristics. The DOT and OOH, the two classics of occupational information, do attempt thus to group occupations into broad general categories and subcategories accessible through a table of contents or similar device. The DOT numbering system in itself is an attempt to group occupations to accommodate a variety of users. In both cases, however, the categories (for example, industrial groupings) are not necessarily related to personal characteristics or interests. The main emphasis in both publications furthermore is on giving information about one occupation at a time. Some of the briefs listed in Category B that are available in sets (kits or "libraries") are also organized by groups or classes, as are the college directories in Category F that list colleges by subject of degree or occupation being prepared for.

The GOE and AEL Worker Trait Group materials, on the other hand, focus on the relationship of occupations to personal interests. They provide



-22-

descriptions of duties, skills, and requirements of groups of occupations that have in common a selected interest field; they do not give information on individual occupations except to list their titles and <u>DOT</u> numbers.

Hence, it would be fair to say that, except in a few cases in a very general way, the content of the publications in categories A-F focus on information about occupations, leaving it up to the decision—makers to make bridges between that realm and their knowledge of themselves.

Tables 10 and 11 summarize the information content (in the occupational realm) of the occupational information resources listed as items Al-F2 in the questionnaire. Table 10 covers items Al-B8, Table 11 B9-F2. In both tables, and in Tables 12 and 15, the categories of content come from U.S. Department of Labor (1977) with modifications. They show that no single resource contains all the information a counseling office presumably needs.

Of the published resources, the Occupational Outlook Handbook (OOH) and Hopke's Encyclopedia of Careers come closest to being complete. They both cover national information on all aspects of job duties, education, personal and other requirements, outlook and salary for over 350 occupations. However, if certain information is difficult to get for a particular occupation, it is sometimes omitted without comment, a practice followed by most of the publications written in paragraph form. Also, local information is absent.

The blank spaces on the tables are significant. For instance, they show that each of the three major government publications (OOH, DOT and GOE) specializes. The Dictionary of Occupational Titles (DOT), 1977, although a classic in defining occupations and describing job activities in detail, does not pretend to give, as the OOH does, information on outlook, salaries, education, training, or possible employers. The Guide for Occupational Exploration (GOE), which clusters occupations into groups with similar general duties and interests, does not define any occupations. It gives for each group a list of names with DOT numbers, and refers the reader to the DOT for descriptions of the specific occupations. Thus while the GOE gives information that the DOT does not on personal characteristics, interests, training and licensing in general, both publications avoid the time-related questions of outlook and salary, which are covered in the OOH. Hence it is only the OOH that must publish a new edition every two years; the DOT comes out much less frequently; the GOE has been published only once.

A privately published book, the Worker Trait Group Guide of the Appalachia Educational Laboratory, is almost identical in content to the GOE, although in a more popularized format with pictures and perhaps a little more detail.

Other specialized publications as shown by blanks on the checklist are \underline{I} Can Be Anything, which specializes in brief descriptions of occupations that



-23-

might offer opportunities for women, Employment Opportunities for the Handi-capped, which makes a point of indicating after each occupational description the types of handicap that would not interfere with such an occupation, and The National Apprenticeship Program, which is mostly a list of apprenticeable occupations (details of training courses are available in special apprenticeship booklets for each occupation).

The handbooks of the military describe very briefly the tasks, aptitudes needed, and related army assignments for a large number of occupations, but, as the blanks indicate, without information on outlook or salaries in the civilian world.

Most of the series of career briefs cover information similar to that in the OOH, often giving more details on daily activities and duties, but only for one occupation at a time. The SRA, Chronicle Guidance briefs, and vocational biographies are examples. Some of the briefs purposely omit certain information. The Job Fact Sheets, for instance, do not attempt to keep up with outlook and salaries. The Guidance Centre briefs, which contain much information on daily tasks and personal requirements, are published in Canada and therefore give Canadian salary and requirements for licensing and entry.

State briefs are variable. They are often very complete and contain state information on salaries and outlook that is not available in federal publications or commercial briefs or books, but of course they differ from state to state. The publications of professional associations and businesses and industries also vary widely. They are often colorful and attractive, but are more likely to gloss over outlook and salary or special problems.

Periodicals, of course, will vary in their content from issue to issue. Career World and Real World are commercial publications aimed at the school market. They contain articles on different occupations in each issue. Career World, in particular, often gives very extensive information on job duties, working conditions, outlook, pay, training, related jobs, personal qualifications and other sources of information, written in a lively and interesting manner. Real World is also designed to be appealing to the high school student, it uses photographs, artwork, and newspaper style effectively. It may tend to include more high school level occupations than Career World. One excellent feature of both is that they usually give places to write for more information.

The <u>Occupational Outlook Quarterly</u> (<u>OOQ</u>) is another government publication which serves as an outlet for Bureau of Labor Statistics information. Articles on individual occupations supplement the <u>OOH</u> during the two years between editions.

Occupations in Demand is a monthly government newspaper based on computerized listings of job openings with the United States Employment Service. It gives only the number of openings, cities where they are located,



-24-

and the range of salaries offered. The other items in that column on the checklist are therefore blank. Civil Service Exam announcements (federal and state), which list government job openings, also give short descriptions of the work, education and experience requirements, and starting salaries.

Because of their length, the books on individual occupations can include far more details on job duties, working conditions, strategies for entry, advancement, and transfer than the briefs and compendiums. The series are all similar in their content and approach, but each individual book is written by a different author with a different approach.

Directories of businesses and industries give names and locations of specific employers. Directories of colleges and vocational schools give the names and addresses of schools or colleges offering specific programs for specific occupations. They do not give any other information.

Computerized Systems

All of the computerized systems considered here have some explicit apparatus for bridging the realm of self and the realm of occupation. This apparatus, which does not exist for most publications, must be regarded as an important part of content.

In doing the research summarized in this report, Educational Testing Service conducted a separate study of 17 computerized systems then in operation. There is not space here to describe that study fully. Also, a more theoretical analysis of the implications of computer-assisted guidance was an offshoot of that study. This report draws heavily on those studies, and the reader is urged to review them. They are:

Laurence Shatkin. Computer-Assisted Guidance: Descriptions of Systems. Research Report RR-80-23. Princeton, New Jersey: Educational Testing Service, October 1980.

Martin R. Katz and Laurence Shatkin. Computer-Assisted Guidance: Concepts and Practices. Research Report RR-80-1. Princeton, New Jersey: Educational Testing Service, March 1980.

Tables 12, 13, and 14 summarize findings about the content of computerized systems. Table 12 reports the content of the occupational realm of information. The format is the same as for publications (Table 10) so that the two contents can be compared. Table 13 shows the nature of the content of the "self" realm of information. Table 14 explains the acronyms that the systems use to describe themselves.

There are few surprises in Table 12. The occupational information content of computerized systems can be described with the same headings as the content



-25-

of publications, and in fact the formats of Tables 10 and 12 differ only in the names across the top of the table. Computerized systems far more than publications contain regional (stife or local) information. One reason is that NOICC has made this feature a requent for federal support. Another reason is that updating a computerized system is generally easier than updating a publication, especially if the system is distributed over a network.

A few observations should be made. Tables 12, 13, and 14 name more systems than are specified under Category G of the questionnaire. The reason is that most of the systems in the tables qualify as "your state system" in the questionnaire. Fourteen state systems, of which seven are treated as separate systems in Tables 12, 13, and 14, are adaptations of the Oregon CIS; that is, they retain the Oregon CIS QUEST feature and some of the Oregon files, but may have different local files. Three of the state systems are varieties of GIS and retain the features of GIS with the addition of local files. CHOICES is a Canadian system with Canadian information; it is being adapted for use in the United States.

Table 12 shows that coverage of information about occupations compares favorably with the coverage in publications. The descriptions in the computerized systems are usually shorter than those in publications like the OOH because of limitations on what a computer terminal can handle: a cathode-ray tube terminal is usually restricted to 80 characters per line by 24 lines per display; a teletype is restricted by the amount of time required to type out a message at a rate (usually) of 30 characters per second. Limitations of storage capacity are also a factor.

Table 13 shows, in very truncated form, the "content" of the systems in the realm of self. It is impossible to show the "content" of individuals as items of factual information analogous to the content of occupational information. Therefore the table merely indicates whether some from of self-appraisal exists, on line or off line, whether the systems allow users to impose their personal specifications on the search for occupational information (structured access); and whether users can get direct access to occupational information as they would in a publication.

Table 13 shows that all 'e systems have these leatures. The method of appraisal of self varies. CIS and its offshoots use the QUEST questionnaire, which asks users to identify, off line (i.e., before interacting with the computer), the aspects of occupations that are important to them. CHOICES uses its own questionnaire, an interest inventory, and the General Aptitude Test Battery (GATB). COIN has its own occupational profile questionnaire. CVIS is concerned mainly with academic rank and potential level of educational achievement. DISCOVER has on-line weighting of values and (both off and on line) Self-Directed Search (SDS) and an interest inventory. MOIS (Massachusetts) uses a questionnaire exploring interests and another exploring financial resources. MOIS (Michigan) uses SDS, the Ohio Vocational Interest Survey (OVIS), and its own questionnaire. GIS and its offshoots (O S, SOICC,



-26-

and WCIS) allow users free choice in accessing—i.e., informal, ad hoc appraisal. SIGI has an elaborate on-line values appraisal and, as a local option, an appraisal of competence to cope with academic preparation for entry into selected occupations.

All the systems also allow structured access—that is, they have the capacity to identify occupations that neet a number of specifications imposed by the user. The number and the nature of the specifications vary from system to system. They are related to the information about self revealed by the appraisal. For example, students who take the QUEST questionnaire off line identify occupational characteristics (up to 21 of them) that are important to them in the search for a congenial occupation. They may then employ as many of these as they wish in the search. The computer retrieves a list of occupations that meet the specifications. Thus the structured access provides a bridge between the realm of self and the realm of occupations by supplying a list of options from the latter that meet the specifications of the former.

The variables used in structured search are different in different systems, as shown in Table 13. Some search on a number of different variables, such as aptitudes and abilities, preferences with regard to physical requirements, characteristics of occupations, and interests. Others search primarily on interests and/or emperaments. Others search primarily on values. These differences are important in the assessment of content of both the self and occupational realms. The conceptual framework (Chapman, 1979) points out that the theoretical approach to guidance (if any) e-hodied in a system influences the rendering of occupational information, as well as the search algorithms. A system that accepts interests or SDS as its approach will necessarily emphasize interests or temperaments as the content of the self realm, and will construe certain occupational information in light of interests and worker traits in the occupational realm. Consequently, the fact that all the systems permit structured access does not mean that their content, in either realm, is equivalent. Students for whom it is unimportant (i.e., of little value) to find expression of their interests in their work will have difficulty with systems that place heavy emphasis on interests.

All systems also allow direct access, in which respect they function in the same manner as publications. The content available through direct access is shown in Table 12. Sometimes direct access provides information at two levels, summary and complete descriptions. The systems vary in the number and type of files that can be directly accessed.

Audiovisual Materials

To analyze in detail the content of all audiovisual resources available to the secondary schools in the United States would be a separate study in



- 27-

itself and a major undertaking. There are so many producers of these materials, and even though some follow a general pattern, each film, tilmstrip, or tape tends to be unique.

In addition, the purpose of audiovisual materials is different from that of written material. They are not likely to be used as a reference work for students to look up a particular fact. Audiovisuals are more often used to expand the awareness of students, to introduce the world of work in general or the wide variety of occupations in particular, to introduce new possibilities, to show career alternatives, or to survey particular fields. They are more likely to be used to "motivate" students to choose a career or to "arouse interest" in particular occupations.

Thus the most important content of audiovisuals is the general impression they create, the "feel" of an occupation they give. As the catalog descriptions of the films and filmstrips in the Bibliography of Current Career Information (Weinstein, 1978) indicate, many films and filmstrips are notable chiefly because they show the general conditions of work, such as work settings, training sites, machinery and tools used, the range of skills needed and techniques used, the sights and sounds of a job. Some also demonstrate the interpersonal contacts on a job, some emphasize roles in contact with other workers, and some are especially good for showing people in nontraditional settings, for example, women actually doing work previously thought to be only for men.

Some illustrate graphically the challenges, dangers, and disadvantages of a job as well as the rewards, such as the chance to help society, achieve personal satisfactions, gain recognition, find leisure, get the satisfaction of making useful things, or understand the place of imagination and risk taking.

Visuals may also give the wrong impression; that is one of their dangers. They may also become dated quickly and then alienate students as well as give wrong information.

On the other hand, in addition to showing job duties and job settings, films and tapes may also give factual information such as education and other entry requirements, salaries, advancement possibilities, and so on. The NVGA Bibliography, for instance, recommends career films and filmstrips that meet the content (and other) criteria of the NVGA Guidelines for the Preparation and Evaluation of Nonprint Career Media (1977). One film noted as "different" because it did not include that information was nevertheless recommended as serving other purposes.

Thus, content <u>may</u> include qualifications for beginning positions, necessary training, prospects for advancement, earnings, working conditions, employment prospects (outlook), advantages and disadvantages, obstacles and rewards, personal qualities, the relation of a career to values, needs, interests and abilities, concepts of credentials and competencies, and so on. Not all films or tapes include all that information, however, or are seen as lacking if they do not include it.



-28-

The content of audiovisual media is not limited to the occupational realm. There are many cassettes and films devoted to the realm of self. Some concern career education, some concern self-discovery, and some concern career awareness. However, of necessity they lack an apparatus for bridging the two realms.

With audiovisual materials, the medium is quite definitely part of the message. The immediacy that film is capable of achieving, but seldom achieves, is an important aspect of its content.

Microforms

For all practical purposes, the category Microforms means VIEW (Vocational or Vital Information for Education and Work). VIEW originated as a deck of microfilm aperture cards with a 1 1/2" by 2" window in which a piece of microfilm is glued containing four typed pages of information about an occupation or program of education and training. Illustrations are sometimes included. In some states there are two cards per occupation; the first contains information about the state as a whole, the second information about the user's region. The aperture cards are read by means of a viewing machine (reader-scanner), which may sometimes be capable of making copies that students can take with them (reader-printer).

VIEW is not a copyrighted name and the VIEW materials used in various states are not produced, distributed, or controlled by a single agency. Every microform system that calls itself VIEW is an independent entity. The content of various VIEWs is usually similar, the differences are the order in which information is presented, the presence or absence of regional information, use of illustrations, selection of format, and use of microfilm as opposed to microfiche.

Table 15 shows the content of the occupational information realm for three VIEW systems, Oklahoma VIEW, Florida VIEW, and Missouri VIEW. The table is in the same format (with minor differences) with the same headings as Tables 10 and 12. Consequently, the content of the three VIEW systems may be compared with the content of publications and computerized systems. In general, the coverage of topics is about the same in all three categories. The amount of coverage of the individual topics is, however, often not the same. Publications, with almost unlimited space, tend to give the fullest coverage. Microforms and computers are much more limited in space.

In the "self" realm of information, the content of VIEW systems is generally lacking. In this respect, VIEW resembles publications. Oklahoma VIEW does, however, offer separate appraisal and structured access. Appraisal consists of a questionnaire that is keyed to a needlesort, an approach much like QUEST for the CIS computerized systems. The structured access allows the user to specify as many as 49 characteristics for the search. Also, a separate Data, People, Things method allows the user to select a group of occupations based on DOT groupings.



-29-

Although neither Florida VIEW nor Missouri VIEW provides structured access, they both have means of appraisal through self-awareness inventories in the user guide. The inventories examine aptitudes, preferences, educational goals, background, economic returns, job advantages and disadvantages, and favorite school subjects. The results of the inventories are then entered on work sheets that allow users to keep track of the corresponding attributes of occupations.

Noncomputerized Sorting Materials

Noncomputerized sorting materials (key-sorts or needlesorts) are a means of clustering occupations in accordance with several characteristics simultaneously. Their purpose is the same as that of the structured access search in computerized systems. They produce lists of occupations or groups of occupations that match specifications imposed by the user. Since the specifications differ for different users, the clusters also differ.

Occupations may also be clustered on the basis of interest scales or personality types. Users who have received scores on the associated inventories can consult manuals (or have counselors consult the manuals) to find lists of occupations that presumably fit their interests or worker traits. The manuals consequently qualify as a type of information delivery system.

Since the content of these systems is variable, it is difficult to tabulate. The sorting devices are not complete systems in themselves. They are almost always used in conjunction with something else-interest inventories, filmstrips, workbooks, and standard publications which contain the factual content. Thus these sorting devices serve as bridges between the realm of self and the realm of occupation. The "content" of information about self resides in whatever method of appraisal the systems employ; the "content" of information about occupations resides in the resources (usually the OOH, DOT, VIEW deck, or special guides) that the users are referred to for explicit information about the occupations retrieved by the search.

The sorting devices are, however, not entirely devoid of factual information. Occupations identified in the search are known to fit the specifications that were selected for the search. Moreover, the cards that are used in the needlesorts usually contain brief printed descriptions of the occupation or worker trait group represented by the card. But for the most part, what is commonly thought of as "content" is not in the sorting device.

School-Arranged Experiences

Again, the informational "content" of school-arranged experiences is too variable to tabulate in any useful way. The informational content in courses in career planning (Item Kl) and occupational units infused in subject matter



-30-

classes is likely to consist of one or more of the resources previously discussed. For example, career education courses often draw on self-assessment materials, such as inventories and questionnaires, to bring to light information about the self realm, and on numerous standard resources, such as publications, films, computers, and so on, for information about the occupational realm. But content may also include such things as peer counseling or work experience which cannot be tabulated at all. Where content is infused throughout the curriculum in subject matter courses, it is even harder to tabulate because teachers vary so much in their training, subject field, and interest in serving as an occupational information resource.

The content of the other experiential activities that comprise Category K is even harder to tabulate because it depends on both the student and the experiences he or she encounters. Some idea of the variety of activities and their content can be found in the Review of the Literature for this study (Shatkin, Weber, and Chapman, 1980).

Other Resources

The "content" of simulations (Category L) and personal contact with school staff (Category M) is impossible to tabulate in any useful way. The informational content of simulations is limited to the activity being simulated and hence is very restricted. The simulations consist of work samples, often involving hands—on activities, that provide a most no factual information about the occupation of the sort shown in Tables 10, 11, 12, and 15. They may, on the other hand, provide considerable information about the realm of "self"—the user's liking for the activities and aptitude in performing them.

As to personal contact with school staff, the content cannot even be estimated. It depends on the qualifications of the staff to serve as a resource or delivery system, the amount of time available to the staff, and the students' motivation in seeking information. Clearly, there are severe limitations on the amount of knowledge that staff can have at their fingertips. This is not to say that the importance of staff as resources is diminished. Face-to-face communication is often a most influential medium.



-31-

Stratum (N=540)(N=668)(N=686)Nat'l Est. percent percent percent of of οf Freqa Freqa Freqa Category stratum stratum percent stratum Bound references Occupational briefs and. kits Periodicals Book series E List of employers Educational directories F for occupations Computerized systems Audiovisual materials I Microforms Noncomputerized sorting | 126 J БC K School-arranged ex-: 521 periences Simulations Personal contact with school staff



Frequency = No. of schools in the stratum minus no. of "No response" in the category.

bloo minus percent "No response" for the national (weighted) estimate for the category.

| | | | 1 (1-540 | | | 2 (14-66 | | | 3 (N-686 | | |
|------------|--|------|---------------|----------------|------|---------------|---------------|------|----------|------------|-----|
| | | | Percent of | Percent | | | Percent of | | Percent | Percent of | Mat |
| | Category and item | Freq | • • | of Category | Freq | of Stretum | | Freq | | Category | Bet |
| | Occupational Outlook Handbook | 508 | 94 | 96 | 599 | 90 | 93 | 667 | 97 | 98 | 92 |
| A2 | Dictionary of Occupational Titles | 477 | 88 | 90 | 523 | 78 | 81 | 624 | 91 | 92 | 83 |
| <u></u> | Encyclopedia of Careers & Vocational Guidance | 272 | 50 | 52 | 262 | 39 | 40 | 390 | 57 | 57 | 46 |
| A8 | Occupational Handbooks for the Military | 393 | 73 | 74 | 487 | 73 | 75 | 546 | 80 | 80 | 75 |
| B4 | Chronicle Guidance | 251 | 46 | 51 | 282 | 42 | 47 | 394 | 57 | 61 | 47 |
| 15 | SRA Briefe | 254 | 4.7 | 52 | 246 | 37 | 41 | 315 | 46 | 49 | 40 |
| B11 | | 297 | 55 | 60 | 325 | 49 | 54 | 426 | 62 | 68 | 53 |
| B12 | • | 276 | 51 | 56 | 287 | 43 | 48 | 396 | 58 | 62 | 48 |
| C1 | Career World | 261 | 48 | 59 | 256 | 38 | 50 | 361 | 53 | 62 | 44 |
| C3 | Occupational Outlook Quarterly | 300 | 56 | 68 | 321 | 48 | 63 | 425 | 62 | 73 | 53 |
| D2 | Your Career in (Book series) | 130 | 24 | 56 | 121 | 18 | 55 | 176 | 26 | 53 | 21 |
| D3 | Your Future in (Book series) | 172 | 32 | 74 | 131 | 20 | 60 | 248 | 36 | 74 | 26 |
| E) | Directories of businesses | 183 | 34 | 54 | 161 | 24 | 56 | 247 | 36 | 56 | 29 |
| E2 | School-prepared lists of employers | 275 | 51 | 81 | 189 | 28 | 66 | 337 | 49 | 76 | 37 |
| 7 1 | College directories arranged by occupations | 371 | 69 | 81 | 450 | 67 | 81 | 523 | 76 | 83 | 70 |
| F2 | Vocational school directories | 408 | 76 | 89 | 464 | 69 | 84 | 572 | 83 | 91 | 74 |
| G 5 | Guidance Information System | 73 | 14 | 48 | 42 | 6 | 38 | 138 | 20 | 53 | 11 |
| G6 | Your state system | 38 | 7 | 25 | 72 | 11 | 65 | 103 | 15 | 39 | 12 |
| | Externally produced A-V materials | 402 | 74 | 93 | 456 | 68 | 93 | 521 | 76 | 96 | 71 |
| H2 | • | 195 | 36 | 83 | 273 | 41 | 93 | 271 | 40 | 86 | 40 |
| I1 | State or regional microfilm | 52 | 10 | 41 | 116 | 17 | 52 | 116 | 17 | 45 | 17 |
| J1 | Rey or needleart | 87 | 16 | 69 | 132 | 20 | 59 | 176 | 26 | 68 | 21 |
| J2 | Score interpretation guides for inventories | 349 | 65 | 67 | 401 | 60 | 64 | 458 | 67 | 69 | 62 |
| K2 | Occupational Information units in subject matter classes | 405 | 75 | 78 | 329 | 49 | 53 | 483 | 70 | 72 | 58 |
| K3 | Exploratory work experience | 426 | 79 | 82 | 493 | 74 | 79 | 531 | 77 | 80 | 75 |
| K4 | Career days, speakers, etc. | 382 | 71 | 73 | 372 | 56 | 59 | 430 | 63 | 64 | 59 |
| K 7 | Job eite tours | 291 | 54 | 56 | 242 | 36 | 39 | 295 | 43 | 44 | 40 |
| K9 | Conferences with community representatives | 118 | 22 | 100 | 112 | 17 | 100 | 134 | 20 | 100 | 18 |
| Ll | Simulations | 471 | 87 | 98 | 540 | 81 | 97 | 597 | 87 | 97 | 83 |
| HI. | Conferences with counselors | 345 | 64 | 70 72 | 238 | 36 | 43 | 388 | 57 | 63 | 45 |
| IC | Aseistance from other staff | 343 | 04 | 12 | 238 | 90 | 7.7 | 100 | | 45 | |

-13-

Table 10

Information Content of Publications (Items Al-B8 on Questions Bll, Appendix A)

| | | A1 (OOH) | A2 (DOT 1977) | A3 (GOE) | A4 (Hopke) | A5 (I Can Be) | A6 (E0 for H) | A7 (Nat. Appren.Prg | A8 (OH of Military) | A9 (WTG of AEL) | A10 (Other) | Bl (B'nai B'rith) | B2 (Careers Inc.) | B3 (Catalyst) | B4 (Chron Guide) | B5 (SRA) | B6 (Finney) | B7 (Guid Centre) | B8 (Job Fact Sheet) |
|-------------------------|---|----------|---------------|----------|------------|---------------|---------------|---------------------|---------------------|-----------------|-------------|-------------------|-------------------|---------------|------------------|----------|-------------|-------------------|---------------------|
| | DOT code | 1 | 1 | / | / | | | | / | / | | | / | | / | | | | |
| | Duties or tasks | | 1 | 18 | 1 | | / | | / | 1 | | / | / | / | / | / | / | | |
| | Special tools, equipm. | | - | 1 | / | / | - | | - | 4 | ; | | 1 | | / | | | | |
| ; ć | Related occupations | 1 | / | 8 | / | | | | | 4 | | | • | / | / | / | - | - | |
| INI OPMATION | Opportunition for advancement | 1 | | | / | 1 | | | | | | / | | | | - | - | <u>۔</u> ۔ ۔ ۔ | |
| SEC SEC | Vorking conditions (e.g., industs or outdoors, hours) | | | 8 | | + | | 1 | | 8 | | | _ | / | | | - | | |
| | other (Spec problems, many details) | / | | 19 | | | | | | ð | | | | | | | | | 1 |
| S | Temperaments | | | | | | | | | | | | ~ | - | / | ~ | - | | |
| PLRSONAL EQUIREMENTS | Aptitudes | 1 | | 1 | 1 | | / | | | 18 | | - | | _ | <u></u> | - | | / | |
| PLRSONAL QUI REMEN | Physical demands | / | | + | | | | 1 | ~ | 1 | | | - | / | - | - | - | - | |
| REQ | Other (more details) | | | 4 | / | | | | | 4 | | | - | - | - | _ | - | 1 | |
| tTS. | Acceptable Handica _l s | | | | | | | | - | | <u> </u> | | | | _ | | | <u> </u> | - |
| OTHER REQUIRCMENTS | (E.g., licensing, union membarship) | / | | 8 | / | | / | | | 7 | - | | | - | | | | C | |

g = for groups of occupations



| | | А1 (ООН) | A2 (DOT) | A3 (GOE) | A4 (Hopke) | | A6 (E0 for Handi-) | A7 (Nat. Appren.Pro | A8 (OH of Milit) | A9 (WTG of AEL) | A10 (Other) | Bl (B'nai B'rith) | B2 (Careers Inc) | B3 (Catalyst) | 84 (Chron Guid) | B5 (SRA) | 86 (Finney) | 87 (Guid. Centre) | B8 (Job Fact Sheets) | |
|-------------|--|----------|----------|----------|------------|---|--------------------|---------------------|------------------|-----------------|-------------|-------------------|------------------|---------------|-----------------|----------|-------------|-------------------|----------------------|--|
| | Number and distri- bution of workers (current) | N | | | | 2 | | | | | | | | | | | z | | | |
| | Occupational Outlook Demand | 7 | | | Z | | | | | | | N | 7 | | Ν | 2 | 2 | | | |
| IVE CHALLON | Supply Relationship hereen command and supple | 2 2 | | - | | | | | | | | | 2 2 | | 7 2 | 2 2 | | | | |
| | Condictors of- fecting outlook | N | | <u> </u> | N | | - | | | † | - | N | N | N | N | N | 7 | С | | |
| LCONOMI. | Opportunities for special groups | N | | | N | 7 | | | | | | N | 7 | ~ | N | × | | | | |
| | Salary range | N | | | N | N | | | | | | N | N | N | N | Ν | | c | | |
| | Starting range | N | | | N | N | | | | | | N | N | | N | N | | C | | |
| | Average salary | N | _ | | N | 2 | | | | | | | N | | N | N | | C | | |
| | Top salary | N | | | N | N | | | | | | 7 | N | | N | N | | c | | |
| | Fringe benefits | N | | | N | N | | | | | | 7 | 7 | | N | N | | C | | |
| | Other | | | | | | | | | | | | | | | | | | | |

KEY: N = national

R = regional

1 = local



^aComplete economic information is not always available for all occupations.

| requirements of schools pro- ig training ams of study | / | 1 | A3 | A4 | A5 (I | A6 (E0 | A7 (Nat Appren Pro) | A8 (OH of | A9 (WTG of | AlO (Other | Bl (B'nai | B2 (Careers | B3 (Catalyst) | B4 (Chron Guid) | B5 SRA) | B6 (Finney) | B7 (Guid Centre) | B8 (Job Fact | |
|---|-----------------------------------|------------------|---|---|------------------|------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| ams of study | + | | 1 | / | / | | | / | 7 | | 7 | - | 1 | 1 | ~ | 7 | C | / | |
| | / | | | \ | / | | | | | | ~ | _ | | 7 | | / | C | ~ | |
| hools | | | | / | ~ | | | / | | | / | | / | / | _ | - | С | - | |
| ing programs | - | | | ~ | | | / | | ~ | | | | ~ | | _ | | С | | |
| cial aid | | | | | | | | | | | | | | | | | | | |
| /on-the-job ling/e.g. work lience) | 1 | | | | | | | / | | | | | | | · | | ••• | | |
| | | <u> </u> | | | - | | | | | _ | | | | | | | | | |
| est s | / | ļ | ~ | - | | | | | | | | <u>ر</u> | اس. | !~ | | | | | |
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| of employers | | | | | | | | | | | | | | | | | | | |
| information employers | / | | | / | | | | | | | / | ~ | ~ | ~ | | | С | | |
| nizations | N | | | N | 7 | | | | | | | | N | N | 2 | 7 | С | N | |
| cations | † | | | | - | | | | | | | | | / | | | C | | |
| ledgeable persons | 1 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 10 | edgeable persons N=national R=re | edgeable persons | edgeable persons N=national R=regional | edgeable persons N=national R=regional | edgeable persons | edgeable persons | edgeable persons | edgeable persons | edgeable persons | edgeable persons | edgeable persons | edgeable persons | edgeable persons | edgeable persons | edgeable persons | cations edgeable persons | cations edgeable persons | cations edgeable persons | cations edgeable persons |



Table 11

| | Info | | | | | | | | | | | | ` | | essner) | <u>.</u> | | | $\widehat{}$ | | ~ .i | Voc. Gu Jost Sec |
|----------------------------|---|----------------|--------------------|-------------------|----------------------|----------------------|-------------|-------------------|---------------------|-------|-----------------|--------------------|------------|-----------------|-------------------|-------------------|------------|--------------------|--------------------|------------|-------------|---------------------|
| | (Items | 89- | ₽Z | on | Que _ | $\overline{}$ | on | RII | $\overline{}$ | ppe: | naı: | хА |) | | essr | Rosen) | | es) | list) | | ook | er t/Pe |
| | | B9 (Voc Biogs) | Blo (Stafffbriefs) | Bll (Prof Assoc.) | Bl2 (Bus. pamphlets) | Bl3 (Former students | B14 (Other) | Cl (Career World) | C2 (Occs. in Demand | (000) | C4 (Real World) | CS (Civil Service) | C6 (Other) | D1 (Opport VGM) | D2 (Your CareerMe | D3 (Your FutureRo | D4 (Other) | El (Bus. directori | E2 (School prep. 1 | E3 (Other) | B | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | DOT code | | | | | | - | ļ | - | Ľ, | | ١., | | - | | _ | - | | - | | | |
| | Duties or tasks | 1 | | | | | | / | | 1 | / | / | | | - | | | | | | Ш | |
| | Special tools, equipm. | / | | | | | | | | / | - | | | / | | ~ | T | | | | | |
| IVE | Related occupations | | | | | | | 1 | | / | | | | - | • | 1 | | | | | | |
| DESCRIPTIVE INFORMATION | Opportunities for advancement | / | | | | | | _ | | ~ | ~ | | | | / | | | | | | | |
| DE IN | Working conditions (e.g., indoors or outdoors, hours) | / | VARY | VARY | VARY | Y447 | | / | | • | ~ | | | _ | | ' | | | VARY | | | |
| | Other (Spec. problems; many details) | | E ,:: | 13 | 3 | 11.3 | | / | | | - | | | | ~ | - | | | 3 = | | | |
| IS | Temperaments | | | | | | | / | | - | - | | | - | - | | | | | | | |
| ONAL EMENTS | Aptitudes | 1 | | | | | | - | | | | | | - | - | - | | - | | | | |
| PERSON, REQUIREM | Physical demands | ~ | | | | | | _ | | / | - | | | ~ | - | ~ | | | | 1 | | |
| REC | Other (more details) | | | | | | | | | | | | | - | ~ | ~ | † | | | | H | |
| NTS: | Acceptable Handicaps | | | | | | | | | | | | | | | | | | | | | |
| other Requirements | (E.g., licensing, union membership) | 7 | | | | | | × | | N | ~ | ۲ 5 | | N | Z | × | | <u> </u> | | | | |

C = Canada / = geographical distinction not appropriate

g = for groups of occupations



| | B9 (Voc Blogs) | BlO (State Briefs) | Bll (Prof. Assoc. Briefs | B12 (Bus. pamphlets) | B13 (Former students) | B14 (Other) | Cl (Career World) | C2 (Occs in Demand) | | C4 (Real World) | CS (Civ. Serv Exam Annou) | C6 (Other) | D1 (OpportVGM) | D2 (Your CareerMessner) | D3 (Your FutureRosen) | D4 (Other) | El (Direct. of Bus & Ind) | [E2 (School prep. lists) | E3 (Other) | | F2 (Voc Sch Directories) Lovejoy or NCES direct. |
|--|----------------|--------------------|--------------------------|----------------------|-----------------------|-------------|-------------------|---------------------|---|-----------------|---------------------------|------------|----------------|-------------------------|-----------------------|------------|---------------------------|--------------------------|------------|---|--|
| Number and distri- bution of workers (current) | | | | | | | | | 7 | | | | | | | | | | | | |
| Occupational Outlook Demand | Z | S | | | | | 2 | 5 7 1 | z | 2 | | | Z | 2 | 2 | | | | | | |
| Supply | | | | | | | | | | | | | 1 | | | | | | | | |
| Relationship between demand and supply | | e y | k y | اد / | λ | | | | | | | | - | | | | | | | | |
| Conditions of- fecting outlook | 7 | 4 7 | 4 / | 4 / | V A- R | | × | | 7 | 7 | | | 7 | 2 | 7 | | | | | | |
| Opportunities for special groups | | 3 | 3 | 11:33 | 3 | | 7 | | 7 | 7 | | | N | 7 | 7 | | | | | | |
| Salary range | N | S | | | | | N | N | 7 | 7 | | <u> </u> | 7 | 7 | 7 | | | | | | |
| Starting range | | S | | | | | N | | N | N | N S | | N | N | N | | | | | _ | |
| Average salary | | | | | | | N | | N | 7 | | + | N | 7 | 1 | | ļ | | _ | _ | _ |
| Top salary | | | | | | | N | | N | Z | | | N | N | N | | | <u> </u> | | ļ | |
| Fringe benefits | 7 | | | | | | N | | N | N | | ļ | N | N | N | <u> </u> | | <u> </u> | | | |
| Other | - | | | | | | <u> </u> | 1 | | | | | | | | | | | | | |

KEY: N = national

R = regional

S = 51410

L = locai

√ = geographical distinction not appropriate

C = (anada)



Complete economic information is not always healtable for all occupation .

| | | B9 (Voc Biogs) | Blo (State briefs) | Bll (Prof. assoc.) | B12 (Bus. briefs) | Bl3 (former students) | 814, (Other) | Cl (Career World) | C2 (Occs in Demand) | c3 (ooq) | C4 (Real World) | C5 (Civ. Serv Exam Annou) | C6 (Other) | D1 (OpportVGM) | D2 (Your CareerMessner) | | D4 (Other) | El (Direct. of bus & ind.) | E2 (School lists) | 23 (Other) | Fl (Coll.direct (Blue book) |
|------------------------|---|----------------|--------------------|--------------------|--|--|--|-------------------|---------------------|----------|-----------------|---------------------------|------------|----------------|-------------------------|---------|------------|--|-------------------|------------|-----------------------------|
| | Entry requirements | / | | | | | | | | | | <u> </u> | | - T | 7 | <u></u> | = = - | | | | - |
| | Typ s of schools pro- viding training | / | | | | | | | - | / | / | | | / | / | / | | | | | ۸ 5 د |
| 7.5 | Programs of study at schools | | נא | ر ک | , A | | + · | / | | / | / | | | / | 1 | ~ | | | 1 | | 7 5 1 |
| OR TRAINING | Training programs | 7 | l vary | ۱ | 1 | | 1 | / | | / | , | | | - | 1 | 1 | | | | | |
| \$ | Financial aid | +- | W1111 | Will | W111 | K 111 | | | L _ | | / | | | | | | | ļ | | | |
| | Other/on-the-job training(e.g. work experience) | / | | | The second secon | demourante cirile de considerantes est considerantes est considerantes est considerantes est considerantes est | Programmy annual progra | | | | , | | | / | ~ | 1 | | Tripping designation of the latest section o | | | |
| | Interests | / | | | | | -= | | | | · | | + | / | / | / | | | | | |
| SATIS- ACTIONS | Vilues | | | - | | | | - | | 1 | - | | | / | , | ~ | | | | | |
| SAT | Orher | / | | | | | | / | | _ | ~ | | | ~ | | | | | | | |
|):MENT | Names of employers | | | | | L | | | | | | | | | | | | N 5 | L | | |
| EMP)TM | Other information about employers | / | | | | L | | | | | | | | / | - | _ | | | | | |
| | Organizations | 1 | | | | | | N | | N | 7 | - | | 7 | N | 7 | | | | | |
| T H F R T I ON | Publications | | | - | ļ· | | | 1 | | 1 | - | | | | | | - | | | | Γ |
| OF FURTHER INFORMATION | Knowledgeable persons | | | | - | † L | | | | • | | | - | | | | | | L | - | T |
| . ú | Other | 1 | | | 1 | 1 | | 1 | | | ~ | + - | | | | | | | | | |

ERIC

-39- 54

appropriate

g=for groups of occupations

Table 12 Information Contents of Computerized Systems--Occupational Realm

| | | ChuliES, Canad | CIS, Oregon | 1 | C(C) 7 | | CIIS, Sirr. R. | \$1.000TG | ELPINA | 67.8 | 101 | Sois incs | . FO. 3. 010. | | 5018 | 1015 | 30105 | \$17.1 | .015 |
|--------------|---|---------------------------------------|-------------|----------|----------|----------|----------------|-----------|----------|-------------|----------|--|---------------|---|------------|------|----------|--------|-------------------|
| | <u>801</u> code | | | · · | / | 1 | | / | 1 | ئرا | · | ./ | , | 1 | , ' | | · - | | ,′ |
| | Ducies or tasks | 1 | ~ | ./ | 1 | v | √ | ✓ | 1 | ./ | ./ | , | V | , | / | 1/ | .′ | | J' |
| | Special tools, equipm. | | | / | | - | | 1 | · | † ` : | / | 1 | 1 | | ✓ | | | · | V |
| NOT | Related occupations | 1 | 7 | / | / | 1 | / | 1 | 1 | 1 | \ | 1 | 1 | 1 | / | | | 1 | |
| NOTENWOODE | Opportunities for advancement | | 5 | N | 2 | N | ~ | 2 | 2 | N | N | And the second s | 2 | | N | 7 | · | 5 | ; , <u>,</u> 5 |
| , . | Working conditions (e.g., indoors or outdoors, hours) | N | Ni S | N | ~ | N | 7 | 7 | 2 | | 2 | 2 | 2, | 2 | N | 17 | | 1 | IN S |
| | orhet | , | v | J. | , | / | | ~ | ./ | ✓ | | 1 | V | | y ' | V | 1 , | v' | · — |
| | Temperatents | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1 | } | 1 | 1 | 1 | | Į, | † · · - | | + - ./ | 1 | | J | 1 | 1 | 1 | V |
| E.ENTS | Aptitudes | , | - · | ./ | 1 | . | | 1 | V | / | 1 | V | / | 1 | J' | | 1/ | ./ | 10 |
| REQUERE | Physical demands | 1 | 1 | 1 | ,' | , | 1 | 1 | | , | 1 | 1 | / | ~ | · · · · | / | 1 | ' | |
| 쭚 | Orner | | | <u> </u> | | | | | | | - | | | | | | | | ļ |
| REQUIREMENTS | (h.g., inchaing, union membership) | | 2 | 2,2 | 5 5 | 2 | N | 2 | L | N | | N | N | 2 | 2 | , | N | 1,7 | 2 |

0 = local option $\int = geographical distinction$ not appropriate



| | СНОІСЕS, Canada | C15, Oregon | CIST-PROCESS | COCIS | COIN | CVIS, SIIP. Rk. | DISCOVER | EUREKA | C15 | MCIS | MOIS, Mass. | MOIS, Micn. | NCIS | ocis | SICI | SOICC | SIOM | WOIS |
|--|-----------------|--------------|--------------|-------|------|-----------------|----------|----------------|----------|------|-------------|----------------|--|--|------|---------|-------|------|
| Number and distri- bution of workers (current) | | N S L | 2 2 | 2 | N O | | 2 | 2 | 2 | 2 | 5 | 2 | 5 | 2 | N | S | 2 | S |
| Occupational outlook Demand | Z | NC | 25 | S | 20 | 2 | 2 | 1115 | 0 | 2 | 2 | زٰد | | 5 | N N | <u></u> | 5 | 3 |
| Supply | | 2 | S | 5 | | | | 5 | 0 | | | | | <u> </u> | | | | |
| Relationship between demand and supply | | 2 | | 2 | | 2 | | 2 . | 20 | | | | 2 | N | N | ' | N S L | S |
| Conditions aftecting outlook | | 5 | N: | S | 2 0 | | N | 2 | 0 | S | 5 | | a Annual Control of the Control of t | Samuel Control of the | N | | 5 | 5 |
| Opportunities for special groups | | 2 | 1 | | | | | | | | - | 5 | | | N | | | |
| Salary range | | 1 | † | | 20 | | † | | | | † - | | | | | | 2 2 | |
| starting salary | 5 | S | 5 | 5 | | N | N | N ₂ | 0 | | 5 | r | S | 2 | И | 5 | 177 | 5 |
| Average salary | | 2 | + - | 5 | | 2 | N | NZ | 0 | 2 | | ٧, | 2 2 | N | N | L | | 5 |
| Top salary | + | 2 | | | | N | N | 25 | _ | | | ¹ 2 | | | N | | | |
| Tringe benefits | - | + | + - | 1 | 11 | † | | 12 | † | | 2 | 2 | 1 | 2 | N | | , | 1 2 |
| Other | - | | 22 | +- | 1 | | 7 | | | | | 2 | | | N | | | S |

TYPL OF INFORMATION

A = national R = regional S = state L = local



ECONOMIC INFORMATION

| | | 1 () 1 | CIS, Oregan | CISI-PROCESS | COCIS | | CVIS, Slip. Rc. | DISCOVER | EUREKA | Gis | į | | YUIS, MICE. | PCIS | 0018 | SICI | DOILG | WCIS | WOIS |
|-------------------------------------|-------------------------------------|---------|-------------|--------------|--------|----------|-----------------|----------|--------|-------------|--------|------------|--|-------------|----------|------|-------------|-------------------------|------------|
| | Entry requirements | N | 5 | 2 2 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | NK | 2 | 2 | 7 | N | 7 | 2 | N |
| | Types of schools providing triining | | 2 | 2 | 2 13 | N | 2 | 2 | 2 | Vi | | NR | 5 | 2 | 2 | N | 5 | 7 2 2 | N |
| EPUCATION OR TRAINING | Programs of study at schools | | 2 | L | 2 | 7 | N | 2 | 2 | N | 2 | NR | 2 | 5 | 2 | 0 | 727 | 2 ~ 7 | ر-، |
| TRAT | Training programs | | 2 | 2 | L | N | | | 2 | C | ۲ ک | ∼ R | 5 | 2 | 5 | 0 | 2 | 5 | 2 |
| | Financial aid | | NS L | S | , , | | | N | 2 | Ν | i İ | * | 2 | 5 | 2 | j | 12 | 2 | N |
| | Other | | 5 | N | 5 | | | N | N | | | 75 | | | 2 2 | | ! - - | + | S |
| I AL TI ONS | Int sts | / | 1 | - | v | | | / | / | 1 | | - | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | - | ~ | 1 | / | V | \ \ |
| POTENTIAL SATISFACTIONS | Lalues | | | ļ - | | | <u> </u> | V | ļ | | | - | ļ Ļ | | <u> </u> | 1 | | ! + | |
| γ. A. F. | Other | | | - | | <u> </u> | | <u> </u> | | ! ↓ ↓ | | + - | <u> </u> | V | | !- | <u> </u> | -/ | ľ |
| EX | Numes of employers | + | + | | 15 | U | | 0 | L | 0 | | | | †- - | | 1 | 1 | ! | |
| H YOU HHE | Other information about employers | + | 5 | 7 | N | ! | 7 | N | S | 0 | | 2 | | N | | | S | N S | S |
| . س | Organizations | -1-: | 2 | 2 | 2 | N | | N | 2 2 | N | 2 | 2 | 122 | NS | 2 | | N S | 2 10 | N |
| SOURCES OF FURTHER VFORMATION | Publications | NS | N | N | N | N | | N | 7 | N | N | N | L | N | 7 | | N | N | N |
| SOURCES OF FURTH (NFORMATI | Knowledgeable petsons | | 0 | 0 | | | | O | | 0 | 2 | | NS | | | | 2 | - | \ 5 |
| p.ul | Other | | - | + - | | 1 | | N | | | | | 2 | | | | 3 | | N |

0 = local option

√ = geographical distinction not appropriate



Table 13

Content of Computerized Systems -- the Student's Realm

| Appraisal | Structured Access | Direct Access |
|--|---|---|
| Off-line "Travel- Guide" Questionnaire; Canadian Occupational [Interest] Inventory; General Aptitude Test Battery | 12 variables, including interest. and aptitudes, future outlook, physical activities, etc. | Yes: SPECIFIC 14 topics of information about any occupation. 2 or 3 occupations may be compared. |
| QUEST questionnaire + counselors (off-line) | Up to 21 variables | Yes: INFO. Provides information specific to a designated region |
| QUEST questionnaire see CIS above | QUESTsee CIS above | Yes: INFOsee CIS above. Also on micro-fiche |
| QUEST questionnaire see CIS above | QUESTsee CIS above | Yes: INFOsee CIS above |
| COIN occupational Profile questionnaire | Many different characteristics | Yes: brief descriptions and detailed information |
| Self-estimate of aca- demic rank and likely level of ed. attainment. User handbook. | Student Script based on post- secondary plans and interests. Occupational Re- trieval: Off-line specifications + Student Script | Work tasks + choice of 6 topics of further in-formation |
| | Off-line "Travel- Guide" Questionnaire; Canadian Occupational [Interest] Inventory; General Aptitude Test Battery QUEST questionnaire + counselors (off-line) QUEST questionnaire- see CIS above QUEST questionnaire- see CIS above COIN occupational Profile questionnaire Self-estimate of aca- demic rank and likely level of ed. attainment. | Appraisal Off-line "Travel- Guide" Questionnaire; Canadian Occupational [Interest] Inventory; General Aptitude Test Battery QUEST questionnaire + counselors (off-line) QUEST questionnaire see CIS above QUEST questionnaire see CIS above QUEST questionnaire see CIS above QUESTsee CIS above COIN occupational Profile questionnaire Coin of questionnaire Self-estimate of aca- demic rank and likely level of ed. attainment. User handbook. QUESTsee CIS above Student Script based on post- secondary plans and interests. Occupational Re- trieval: Off-line specifications + |



Table 13(continued)

| D h am | Appraisal | Structured Access | Direct Access |
|------------------------|---|---|---|
| System DISCOVER | Weighting of values; Self-Directed Search; Strong-Campbell Interest Inventory; favorite subjects; occupational characteristics. | By values specifications; by Holland's SDC classification; occupational characteristics; favorite high school subjects. | Yes: brief or long occupational description |
| EUREKA (Calif. CIS) | QUEST questionnaire. See CIS above. | QUESTsee CIS above. | Yes: INFO. See CIS above. |
| GIS | No. user's choice in accessing | Yes, by the presence or absence of up to 204 occupational characteristics. | Yes: for individual occupations |
| MCIS | QUEST questionnaire see CIS above | QUESTsee CIS above. | Yes: DESC + code for a region. PREP yields info about occupations. |
| MOIS (Mass.) | EXPLORE questionnaire explores interests. Financial Data Sheet questionnaire off-line | By EXPLORE of FIN SEARCH (financial aid) or PROG (ed. programs). 13 variables in EXPLORE | Yes: by region for occupations and programs |
| 10IS (Mich.) | MOIS questionnaire or SDS or OVIS scales off- line | MOIS Inventory or SDS or OVIS. Also search of Mich. colleges | Yes: Brief description + longer description of up to 6 categories |
| NCIS | QUEST questionnaire see CIS above | QUESTsee above | Yes. DESC for national info., OTHER for Nebraska info. |
| ocis | As in GISsee above | As in GISsee above | Yes: as in GIS |
| SIGI | On-line weighting of values; on-line estimate of college performance; on-line estimate of risks of not succeeding in entering an occupation of choice | By minimum specifications of opportunity to satisfy values | Yes: by up to 28 questions for 3 occupations at a time |



Table 13(continued)

| System | Appraisal | Structured Access | Direct Access |
|--|---|--|-----------------------------|
| SOICC (formerly Alabama Occu- pational In- formation System) | As in GISsee above | As in GISsee above | Yes: as in GIS |
| WCIS | As in GISsee above | As in GISsee above | Yes: as in GIS |
| WOIS | QUEST questionnaire see CIS; the Career Game; GATB, SDS | Generally as CIS QUEST. Also possible by Career Game of Computerized Career Information System | Yes: INFO. See CIS above |

^aThe Career Information System (CIS), first developed in Oregon, is the basis for the 14 state systems listed here. The asterisked systems are treated in Tables 12, 13 and 14 as separate systems, as well as varieties of CIS.



Table 14

Acronyms of Computer Systems

| Acronym | Full name | | |
|-------------------|---|--|--|
| CHOICES | Computerized Heuristic Occupational Information and Career Exploration System | | |
| CIS | [Oregon] Career Information System | | |
| CISI | Career Information System of Iowa | | |
| COCIS | Colorado Career Information System | | |
| COIN | Coordinated Occupational Information Network | | |
| CVIS | Computerized Vocational Information System | | |
| DISCOVER | (Not an acronym) | | |
| EUREKA | (Not an acronym. It is the California Career Information System.) | | |
| GIS | Guidance Information System | | |
| MCIS | Minnesota Career Information System | | |
| MOIS ^a | (Massachusetts/Michigan) Occupational Information System | | |
| NCIS | Nebraska Career Information System | | |
| OCIS | Ohio Career Information System | | |
| SIGI | System of Interactive Guidance and Information | | |
| SOICC | State Occupational Information Coordinating Committee | | |
| WCIS | Wisconsin Career Information System | | |
| WOIS | Washington Occupational Information System | | |

 $^{^{\}mathrm{a}}$ There are two systems that use this acronym, one in Massachusetts, the other in Michigan.



Table 15

Content of Three VIEW Systems--Occupational Realm

| DOT code Duties or tasks Special tools, equipment Related occupations Opportunities for advance Working conditions (e.g., indoors, hrs.) Other Temperaments Aptitudes Physical demands Other Other requirements (e.g., licensing) Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/suply Supply Relationship, demand/suply Salary range Starting salary Salary range Starting salary Top salary Fringe benefits Other Entry requirements Types of schools for training Trypes of schools for | | | Oklahoma | Florida | Missouri |
|--|-------------------|--|-------------|--|--|
| Duties or tasks Special tools, equipment Related occupations Opportunities for advance Working conditions (e.g., indoors, hrs.) Other Temperaments Aptitudes Physical demands Other Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/supliy Conditions affecting outlook Opportunities for special groups Salary range Starting salary Average salary Top salary Fringe benefits Other Entry tequirements Types of schools for training Training programs Financial and Other Interests Values Other Names of employers Names of employers Names of employers | | DOT code | / | | |
| Special tools, equipment Related occupations Opportunities for advance Working conditions (e.g., indoors, hrs.) Other Temperaments Apritudes Physical demands Other Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/supliy Salary range Starting salary Average salary Top salary Fringe benefits Other Entry requirements Types of schools for training Programs of study at schools Training programs Financial and Other Names of employers | | | | | |
| Temperaments Aptitudes Physical demands Other Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/supily Conditions affecting outlook Opportunities for special groups Salary range Starting salary Average salary Top salary Fringe benefits Other Entry requirements Types of schools for training Training programs Tipes of schools Training p | ve | | - | | |
| Temperaments Aptitudes Physical demands Other Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/supily Conditions affecting outlook Opportunities for special groups Salary range Starting salary Average salary Top salary Fringe benefits Other Entry requirements Types of schools for training Training programs Tipes of schools Training p | T T | | | V | |
| Temperaments Aptitudes Physical demands Other Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/supply Conditions affecting outlook Opportunities for special groups Salary range Starting salary Average salary Top salary Fringe benefits Other Entry requirements Types of schools for training Training programs Taining programs Tine tequirements Types of schools for training Types of schools Training programs Training programs Types of schools Types | íp ma | | + | ~ | NSL |
| Temperaments Aptitudes Physical demands Other Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/supply Conditions affecting outlook Opportunities for special groups Salary range Starting salary Average salary Top salary Fringe benefits Other Entry requirements Types of schools for training Training programs Taining programs Tine tequirements Types of schools for training Types of schools Training programs Training programs Types of schools Types | Cr Or | | | - | N 9 L |
| Temperaments Aptitudes Physical demands Other Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/supply Conditions affecting outlook Opportunities for special groups Salary range Starting salary Average salary Top salary Fringe benefits Other Entry requirements Types of schools for training Training programs Taining programs Tine tequirements Types of schools for training Types of schools Training programs Training programs Types of schools Types | es nf | | - N | <u> </u> | 10, 2, 4 |
| Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/sup; by Conditions affecting outlook Opportunities for special groups Salary range Starting salary Average salary Fringe benefits Other Entry requirements Types of schools for training Programs of study at schools Training programs Training programs Financial and Other Names of employers Names of employers | Q | other | | | |
| Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/sup; iy Conditions affecting outlook Opportunities for special groups Salary range Starting salary Average salary Fringe benefits Other Entry requirements Types of schools for training Programs of study at schools Training programs Training programs Salary Financial and Other Names of employers Names of employers | ~ 1 | Tomperamento | 3 6 | | |
| Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/sup; by Conditions affecting outlook Opportunities for special groups Salary range Starting salary Fringe benefits Other Entry requirements Types of schools for training Programs of study at schools Training programs Financial and Other Names of employers Names of employers | na re | | | | |
| Other requirements (e.g., licensing) Number and distribution of workers Occupational outlook Demand Supply Relationship, demand/sup; by Conditions affecting outlook Opportunities for special groups Salary range Starting salary Fringe benefits Other Entry requirements Types of schools for training Programs of study at schools Training programs Financial and Other Names of employers Names of employers | so ui ts | | | | |
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Sources of Information

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|-----------------------|----------|---------|----------|----------|
| Organizations | NS | N _ | NSL | |
| Publications | | L | NSL | ↓_ |
| Knowledgeable persons | 5 | L | S. L | L |
| Other | | L | | L |

Type of information: N=

N=National R=Regional S=State L=Local

0=Local option

✓=Geographical
 distinction not
 appropriate



CHAPTER III

RESEARCH QUESTION A2

Research question a2 is, "What is the quality of the information contained in these resources?" Two common meanings of quality are relevant. One is descriptive, referring to the essential nature, attributes, and characteristics of an entity. The other is evaluative, referring to some standards of excellence by which an entity is judged. A rush to judgment that ignores the many descriptive dimensions along which entities (resources) vary—especially the differentiated purposes and functions they serve—makes for simplistic, subjective, and frequently superficial standards for preparing and evaluating resources. Where do such standards come from?

To answer this question at a pragmatic level, they tend to come from committees. For example, committees under the aegis of the National Vocational Guidance Association published "guidelines" for career information "literature" and "media" (National Vocational Guidance Association, 1972). Standards for computer-based career information systems and for statewide career information delivery systems, respectively, have been published more recently (Association of Computer-Based Systems for Career Information, 1979, and National Occupational Information Coordinating Committee, 1980). Other citations appear in the Review of the Literature (Shatkin, Weber, & Chapman, 1980). All these published standards and guidelines are largely expanded checklists for content and procedures. Although prescriptive, they tend to appear innocuous in that they seldom lead to sharp differentiation between resources in either descriptive or evaluative terms.

For example, they all mention "abilities" required for occupations. As Tables 1° 11, 12, and 15 in Chapter 2 show, virtually all resources can be checked if on this "standard." But the domain of abilities can be defined and asses d in various ways; so can occupational requirements; and the linkage between abilities and requirements can be established and treated in diverse methods from one resource to another. These differences cry for description and critical analysis before we can judge whether the information in a given resource about abilities required for occupations is accurate and useful or mistaken and misleading. Thus, we seek to probe beneath the surface of compliance with such "standards," to examine the bases for statements about ability requirements in various resources, and to venture some carefully supported judgments about them.

To illustrate further, all published standards and guidelines say that information such as data on wages and salaries should be "accurate" and "current." This is a pious prescription. But what do accuracy and currency mean in operational terms? How should a resource handle the availability of more recent data about one occupation than about another? We shall attempt to describe and evaluate specific procedures for accomplishing the goals of accuracy and currency.



Description, Classification, and Evaluation

Since even much-maligned committees engage in rational processes, we must also try to answer the question at a conceptual level: standards can emerge from inductive or deductive reasoning. The former starts with observations of existing practices. These observations often take the form of comparisons. Before information resources are compared, it is necessary first to establish that comparisons are appropriate.

It is commonplace to say that apples should not be compared with oranges. Perhaps a more useful statement is that neither apples nor oranges should be arbitrarily designated as generally superior to the other. Yet certainly they can be described, classified, and compared along many relevant dimensions—e.g., calories, amount of vitamin C, water content, and so on. Then, depending on the purpose of the comparison, an evaluation in respect to that purpose is not inappropriate (e.g., oranges as a better source of vitamin C). In short, evaluation can not properly be segregated from description and classification, and indeed depends on it.

In a similar way, one source of occupational information (say, the Occupational Outlook Handbook) is more extensive than another (say, a site visit), but the latter is more vivid and intensive. One source may be more objective than another, or more current, or less expensive, and so forth. These comparisons thus lead us to induce a set of criteria and standards from a present body of practice: the scope of one source, the detail of another, the currency of a third, and so on. Each resource can then be judged on each criterion in terms of standards representing the state of the art. But then we are accepting standards within the limitations of existing resources. It is possible to go a step further: Using the dimensions inferred from such comparisons, we can set ideal (criterion-referenced) rather than observed (norm-referenced) standards. Then we can judge how close each resource comes to this ideal standard.

This still limits us, however, to dimensions derived from observations of existing resources. But often the set of practices that might be most effective and might therefore be of highest quality does not exist in any actual resource. Nevertheless, the dimensions and criteria for ideal programs or resources can be conceptualized even though they can not be observed. Such idealized conceptualizations are formulated deductively. A prescriptive approach to standards combining induction and deduction should, then, include criteria based on actual resources and also criteria derived from ideal resources that might be constructed (perhaps innovations still being developed) but do not presently exist in schools.

It would be presumptuous, however, to use a survey of the present sort as a platform for prescription. What is found in this study may, at most, help to clear the ground for policy decisions. It may identify and define dimensions along which resources can be examined and compared; it may sensitize policy—makers to relevant issues, perhaps alter their perceptions of quality, help them reconcile divergent views, and prepare them for the decisions they will have to make. It will not tell them what to do.



In short, evaluative standards for judging quality depend on descriptive dimensions. Such dimensions are, in part, parsimonious ways of summarizing and organizing observations. They provide a preliminary structure for a classification system, or taxonomy. Taxonomies have contributed to understanding in such diverse fields as (to name only a few) astronomy, library science, biology, and sexual behavior. They have been used to identify entities or phenomena and to tabulate frequencies—they give discrete items a name and place them in relation to one another. Much of what we "know" comes from such taxonomies: they transform our perceptions into concepts.

Conversely, we can scarcely register or take cognizance of a perception without some prior conceptual frame of reference. Then a continuing process of confirmatory observations leads to support or revision of our rudimentary concepts. Through this iterative process of observation and thought, we progress from ad hoc, preliminary, tentative designations to more formal, explicit, and tested classification systems.

A classification system is useful for evaluating quality to the extent that it helps to differentiate between various resources and leads to critical analyses that provide new insights. We will try building such a classification model, give it a spin, and see how it runs according to these criteria.

A Preliminary Frame of Reference

In this study, the school questionnaire embodied a moderately primitive classification system of occupational information resources. It was based on superficial similarities and differences that would be readily recognized by respondents. Thus question ll asked about the availability in each school of specifically designated or titled publications (subdivided into bound references, occupational briefs and kits, periodicals, books, lists, and directories); computerized information systems; audiovisual materials; microforms, noncom terized sorting materials; school-arranged experiences; simulations; and personal contacts with staff. This array consisted, in all, of 71 items that might be circled in various combinations to represent the resources present in a school. A simplifying procedure was used to reduce the enormous number of possible combinations into types representing the most frequently occurring combinations. Thus frequency of joint occurrence has been used as one taxonomic approach in answering the question, "What types of schools have what types and quality of career information resources?" These data are reported in Chapter IV and will not be repeated here.

This enumeration of joint occurrences is purely empirical, quantitative, and inductive. Resources that go together are not necessarily similar. On the contrary, they might logically be expected to be complementary. It is also superficial in its categorization of occupational information resources by apparent medium or delivery system. For example, all computerized career information delivery systems (CCIDS) are grouped together, without regard for the fact that there are often great differences between such systems. Some of these differences are described and discussed extensively in companion pieces to this report (Katz & Shatkin, 1980, and Shatkin, 1980).



The former publication defines, examines, and illustrates the following dimensions along which CCIDS vary: (1) scope, (2) content, (3) structure, (4) style, (5) procedures, (6) costs, (7) effects, and (8) underlying rationale or model. The latter publication describes 18 currently operating CCIDS on scope and content, structure, and procedures -- topics on which comprehensive information could be gathered from first-hand use of the systems, published materials, and questionnaires completed by the developers. Obviously, the eight dimensions listed above could be applied to many other media or delivery systems of information. Brief definitions of these dimensions may, therefore, be useful for qualitative descriptions and comparisons of resources. Then, without repeating the systematic descriptions and evaluations of various resources that appear in another companion publication (Review of the Literature -- Shatkin, Weber, & Chapman, 1980) and in Chapter II on Research Question al, comments will be made about selected resources, particularly in light of data from the questionnaires. Finally, an attempt will be made to evaluate resources in qualitative terms.

1. Scope

Scope includes the functions of a resource and the purposes for which it may be used. How does it fit into a comprehensive program of career suidance? To what extent does it purport to deal with appraisal of the client? Information about educational and occupational options? Evaluation of options, or strategies for decision—making? Planning for appropriate action to implement decisions? And what is the relative extensiveness of each of these components? Is it primarily for exploratory purposes or crystallization and specification of choice? To what extent is a resource intended for use by each of different populations (e.g., poor readers), and in each of different settings (e.g., in secondary schools, colleges, CETA centers, prisons, libraries, and so on)?

Few could dispute that a comprehensive <u>program</u> of career guidance should be broad in scope. No single resource of information, however, can be counted on to accomplish all things for all persons. Thus it is appropriate to consider how each component may fit into the total mix. While resources can readily be described and compared in scope, evaluation of any given resource on this criterion must logically be linked to the purpose for which it was prepared and/or for which it is likely to be used. This is not a severely limiting constraint, since there is considerable redundancy of purposes across resources.

Questionnaire data on purposes. Several items on the questionnaires addressed the subject of the purposes for which various resources are used. Question 13 of the School Questionnaire asked, "Of all the resources you circled in Question II [available AT YOUR SCHOOL], which would you be most likely to use for each of the PURPOSES listed below?" For each of the seven items that followed, the ten most frequently occurring responses appear in Tables 16-22 below. They are listed in rank order of frequency in the columns headed "National Estimate." These percentages indicate preference for each resource nationally.

It must be emphasized, however, that this column by itself might be misleading, since the resources vary greatly in frequency of availability



-52**-**

one secondary schools. For example, it will be recalled that the uniquitous one available at 92 percent of secondary schools nationally, whereas a state computer-based information system is available at only 12 percent of the schools. Therefore, another column has been placed adjacent to "National Estimate." This column at the extreme right of each table is headed "Percent Based on Schools with Resource." It provides an index of the frequency with which each resource is chosen for a given purpose when that resource is present. No attempt is made to convert these percentages into national estimates: they represent simply an answer to the question, What proportion of the respondents (summed across all three strata) who had a given resource said they would use it for the stated purpose?

Thus as can be seen in Table 16 for item a, "Arousing students' interest in exploring occupational information generally," the OOH would be used most frequently according to the national estimate, in about 12 percent of the schools nationally. But in those schools that had a state computer system (amounting to only 12 percent of the nation's schools), about 44 percent of the respondents would use that system for this purpose. This perception of computer systems is corroborated by preference for use of GIS* in about 38 percent of the schools that had it available. (State systems and the GIS were the only computer systems in enough schools to show up in these tables.) Since the OOH was available in 97.5 percent of the schools that had computer-based systems, it seems clear that in those schools computer-based systems were seen as more useful than the OOH for arousing students' interest in exploring occupational information generally. All other resources -- such as microfilms, courses, career days, audiovisual materials, and so on down the list in Table 16--are seen as useful for this purpose with much lower relative frequencies ever in the schools in which they are available. Since courses, career days, and occupational units are often said to be offered largely to accomplish this purpose, it is noteworthy that they were chosen with such relative infrequency. Evidently, career guidance staffs had little confidence in their eflicacy.

Respondents with computer systems may have felt that the technology itself had a special appeal for students, who would tend to be attracted to exploration of occupational information through its association with this equipment. Or perhaps the computer's powerful capabilities for structured



^{*}There may be some overlap between Guidance Information System (GIS) and "Your state system." GIS contains national files, and users may also contract to add state/local files. Some schools using GIS as a statewide CCIDS may have referred to it as GIS, and others as their "state system." We know, however, that a majority of the "state system" responses referred to a state variant of the Oregon-based Career Information System (CIS). Further distinction is not crucial, since it would rarely have any meaningful impact on interpretation of the tables.

access to occupational information were seen as a particularly good way of capturing students' interest in many occupations they might not otherwise have considered investigating.

Certainly, one caution must be observed in interpreting the findings in this set of tables. The very fact that a school has chosen to adopt a composer system (or some other resource) may predispose the respondent to prefer using it for a given purpose. The OOH is almost universally available, and obtaining it requires very little effort or commitment on the part of school staff. Other resources, to the extent that they involve special effort, cost, interest, or commitment on the part of school staff, may tend to be favored for various purposes through the same process of selection that led to their being adopted. We must be alert to a possible halo effect. It is important, then, to note, for any given purpose, differentiations between various resources that are not too easily come by, and also to note differentrations between purposes for which any given resource tends to be chosen with greater or lesser frequency. Thus externally projuced audiovisual materials (which involve cost and effort) are preferred for the purpose of "arousing students' interest... in only 7.5 percent of the schools that had such materials available--less than a fifth of the relative frequency with which computer systems were chose, when they were available. But for item e, "Enabling poor readers to get information about occupations, audiovisual materials are chosen with about the 'ame relative frequency as computer systems in schools where these resources are respectively available: 24 percent for state computer systems, 22 percent for AV materials, and 20 percent for GIS (Table 20).

The OOH clearly stands out as the most favored response to item b, 'Familiarizing students with many occupations," in relative as well as absolute frequency. As indicated in Table 17, it would be used for this purpose at about 26 percent of the schools having copies. Its closest competitor is the DOT, which would be used at 10.5 percent of the schools that had it. The latter, of course, contains more occupational titles and definitions than any other source but was evidently not seen to be as usable as the OOH.

For Item c, Giving students detailed information about an occupation with which they are already tamiliar "respondents who had computer systems tended to favor them, about 38 percent for state computer systems and 31 percent for GIS (Table 18). The closest rival in relative frequencies were the OOH (about 19 jercent), (hronicle Guidance briefs/library (about 16 percent), and state or regional microfilm/microfi he, such as VIEW (about 13 percent). The strong showing of the computer sistems here is a little surprising information in these systems tends to be concise. Perhaps the presence of state information accounts for it and also for the choice of microfiche. The Chronicle briefs generally contain more detail on Work Performed for a given occupation than do the OOH briefs, although the total length of each brief is very similar. Chronicle and SRA briefs were in a similar number of schools (about 47 percent and 41 percent, respectively) and appear to be quite similar in purpose, it is interesting to note, then, that respondents who had SRA briefs chose them for this item with a frequency of about 7 percent—less than half the relative



-54-

frequency with which Chronicle briefs were chosen. The Encyclopedia of Careers and Vocational Guidance was also available in a similar number of schools (about 46 percent) and was chosen with relative frequency almost the same as the SRA briefs (about 7 percent). Pamphlets of professional associations were present in 53 percent of the schools nationally, of the schools that had them, only 4 percent chose them for this purpose. These pamphlets often contain much more detail than the other resources mentioned above, but are very uneven, with great variation from one occupation to another. Books on individual occupations might have been expected to show up with some considerable relative frequency as a response to this item, perhaps they were neglected because the number of occupations covered in them is comparatively small. Or perhaps respondents felt that students would be unwilling to undertake so much reading. It is also noteworthy that audiovisual materials, although present in 71 percent of the schools nationally, were almost never chosen for this purpose.

On the face of it, the structured access capabilities of computer systems would seem uniquely endowed to meet the purpose of item d, "Suggesting previously unfamiliar occupations for a student to consider." Indeed, they were by far the most favored response in schools that had them—about 31 percent for state systems and 30 percent for GIS (See Table 19). Yet one wonders why the percent—ages in those schools were not even higher. Again, the OUH figured significantly in the responses, chosen by 19 percent of those who had it. It is not clear how this publication and the others mentioned would be used for this purpose. What is perhaps a more logical resource, conferences with counselors, although widely available (83 percent of the schools nationally), was chosen in only 4 percent of the cases. School courses in career planning and occupational information units in subject matter classes, also widely available (in 40 percent and 62 percent of the schools, respectively), are often designed for this purpose, they were, however, seldom chosen.

For item e, "Enabling poor readers to get information about occupations," one would expect audiovisual materials to be popular, and they are: in about 22 percent of the schools having such materials, they would be chosen for this purpose (Table 20). But this relative frequency is no greater than that which appears for the computer systems in schools where they are available: about 24 percent for the state computer systems and 21 percent for GIS. Apparently, the reading level of the computer systems is regarded as easier than the OOH (chosen by only about 4 percent of the schools). State microfiche, Careers Inc. briefs, SRA briefs, and Career World were also evidently regarded by those who had them as somewhat more useful than the OOH for poor readers. Of resources (besides audiovisual materials) that would not seem to entail reading, career days and speakers were named by about 6 percent of those who had them, conferences with counselors were named by only about 4 percent of the respondents, and the remainder (such as school ourses, exploratory work experience, site tours, simulations, and oth opportunities for direct observation or experience) were seldom chosen. Thus even for poor readers, there appears to be considerable dependence on resources that require rearing, except



tor audiovisual materials. Perhaps the latter are more easily managed and controlled than the other observational and experiential resources.

For item t, "Helping college-bound students select colleges with programs suitable for their occupational plans," the response frequencies seem quite reasonable. College directories arranged by occupation were available in 70 percent of the schools nationally, and would be chosen for this purpose by about 58 percent of the respondents who had them (Table 21). The computer systems rank next in relative frequency (about 52 percent for GIS and 30 percent for state systems). Other educational directories for occupations were chosen in about 29 percent of the schools that had them. One might wonder about the relatively high preferences for the computer systems for this purpose. The state systems generally do not include national data bases for colleges. Thus respondents who chose them appear to be assuming that the college selection would be limited to intrastate institutions. Although GIS has a national college data base, it--like the state systems--would require a two-stage operation: first deriving major fields from the occupational data base and then searching for colleges with those major fields. The directories cited provide easy one-step access to lists of colleges directly by occupation.

Item g, "Helping noncollege-bound students select schools or training programs suitable for their occupational plans," is analogous to the preceding item and so are the responses (Table 22). Vocational school directories would be chosen by about half of those who have them. About 32 percent of the respondents with computer systems chose them for this purpose. About 27 percent of those with other educational directories would select them. Conferences with counselors were chosen in about 7 percent of the schools. A job training directory, which would appear to be suitable for this purpose, was present in only about 4 percent of the schools nationally, and was chosen by only one school in the entire sample.

Unserved purposes. Finally, in connection with this question of perceived purposes served by various resources, it is interesting to note the perception of gaps. Pooling the "Not Applicable," Don't Know," and 'No Kesponse" frequencies in the national estimates gives the following (rounded) percentages for items a through g, respectively. 14, 11, 14, 16, 28, 17, and 18. The highest frequency, 28 percent, is for e, "Enabling poor readers to get information about occupations. That is, in over a quarter of the schools nationally respondents were at a loss to designate any resource available in their school for this purpose. Some may interpret this finding to mean that more attention must be naid to developing and disseminating resources for poor readers. Others may say it underlines one more time in one more context the pervasive importance of reading for education and the need to give maximum attention to the improvement of reading. The two interpretations are not, of course, mutually exclusive.

These questionnaire items do not pretend to exhaust the possible purposes of occupational information resources. The items do, however, sample a considerable variety of purposes, enough to determine which resources tend to go



-56-

together or to be differentiated in respondents' perceptions of purposes for which they might be most useful. This analysis is limited, of course, to the practitioners' views (most of the respondents, it will be recalled, were guidance counselors). Theirs are not the only perceptions of relevance. Other points of view will appear in analyses of responses to the student questionnaire. Expert opinion has been cited in the review of the literature, and the perceptions of the investigators for this study are not suppressed in the body of this report. Here, however, the focus is on practitioners.

Their views are particularly important because they are the local "experts" in each school on resources of career information. As they indicate elsewhere in responding to the School Questionnaire (Question 4, see Table 49, Chapter V), they direct students to occupational information. Furthermore, the practitioners claim that their referrals are the most effective method of getting students to use occupational information (Question 2, Table 82, Chapter X).

2. Content of Occupational Information Resources

Information resources that purport to cover material of similar scope and purpose may yet vary in content. For example, they may involve somewhat different arrays of occupations and emphasize different topics. Work activities, requirements, environments, rewards, and satisfactions may be described from different points of view, utilizing different dimensions. Thus some sources may describe activities in terms of level of skill in working with data, people, and things, while other sources use a dozen or more categories. Others may emphasize in detail the materials and tools used on the job. Still others may focus on the products of the activities, and so on. Even when there is agreement on use of a descriptive category, different definitions or methods of observation or measurement may give different results. For example, wage and salary data may be translated into "most commonly occurring salary," or "average salary," or "salary range," or "beginning, median, top, and variation" for each occupation; such data may be based on national, regional, state, or local surveys of occupations, or interpolated from surveys of industries; they may be gathered from studies more than two years old, and reported with a date, or may be projected and reported up to a more recent year by adding inflation factors. Different rubrics may be used to represent the domain of satisfactions associated with occupations; even when similar rubrics are used, definitions and scales may vary from one resource to another. Some differences in content have been described across many resources in the preceding section and are summarized in Tables 10 through 15, and more detailed analyses have been reported for computerized guidance systems by Katz and Shatkin (1980) and Shatkin (1980). At this point, it is appropriate to note how the content of various resources has been perceived and differentiated by secondary school practitioners in seeking information on a relevant sample of topics.



Questionnaire data on variations in content. Question 12 attempts to get at respondents' perceptions of variations in the nature and quality of informational content in the array of resources. It asks them to designate which resource (of those indicated as available in question 11) "...would YOU be most likely to use to get ANSWERS TO QUESTIONS about each of the topics listed below?" Tables 23 through 32 again show the ten most frequently designated resources in rank order according to national estimates, with national percentages in one column and, in the final column, percent of respondents choosing a resource in those schools where it was available.

For item a, "Education, training, licensing and certification requirements for entry into various occupations," the \underline{OOH} is the most frequent choice, selected by about 43 percent of the schools that had it (Table 23). The state computer system and GIS follow, with relative frequencies of about 36 percent and 28 percent, respectively. State microfiche (such as VIEW) was chosen by about 14 percent of the respondents who had it available. The \underline{DOT} does not provide much information on this topic, but was chosen at about $\underline{8}$ percent of the schools that had it.

The OOH was again the leading resource for item b, "Employment outlook in various occupations over the next 5 to 10 years," being chosen at about 60 percent of the schools that had it (Table 24). Again, the computer systems came next (32 percent for state, 24 percent for GIS). They were followed by two Department of Labor periodicals, Occupations in Demand (about 14 percent) and Occupational Outlook Quarterly (11 percent). The former is a somewhat unexpected choice, since it provides information about current job openings rather than outlook over a 5- to 10-year range. Perhaps these respondents are skeptical of the value of projections of outlook and prefer to use current openings as the best basis for projections. Presumably, they would regard as pessimistic the 5- to 10-year outlook for any occupation not currently "in demand."

To get answers to questions about item c, "Special aptitude, ability or skill requirements for various occupations," respondents who had computer systems would tend to use them (about 36 percent for state systems and 30 percent for GIS). (See Table 25.) About 27 percent of those who had the OOH would choose it for this topic. State microfiche came next (about 16 percent), and a number of publications were also mentioned with sufficient frequency to till out the "top ten."

The configuration of responses to item d, "Description of work activities in various occupations," is quite similar to that of the previous item. They are shown in Table 26. Again, the computer systems and $\frac{\text{OOH}}{\text{three}}$ occupy the first three positions in relative frequency, followed by much the same set of



-58-

publications and the state microfiche; however, Vocational Biographies replaces occupational briefs published by the state. The <u>DOT</u> (chosen by about 13 percent of those who had it) seems to be a more reasonable choice for this item than for items a and c above.

Table 27 shows a similar pattern of responses for item e, "The work environments in various occupations." The <u>OOH</u> and computer systems are grouped in the van, followed by pretty much the same set of resources as before. The <u>DOT</u> appears with a lower frequency here, however, and audiovisual materials are mentioned often enough to get into the top ten. It seems surprising that first-hand observation and experiential activities fail to appear. Perhaps, like books on specific occupations, these were not regarded as good resources for learning about environments in a large enough number of occupations.

For information about item f, "The security and job tenure of various occupations," Table 28 shows that about a third of those who had the <u>OOH</u> would look there, compared to about a fifth of those who had state computer systems. Interestingly, GIS was not mentioned frequently enough to be included in this table. This omission seems reasonable in that GIS provides no information on this topic; but neither, for that matter, do the state systems. Even in the <u>OOH</u> the information on security and job tenure is spotty, appearing occasionally in incidental comments on outlook or work description. Thus it is not at all surprising that about 31 percent (national estimate) could not name any resource for this item (sum of "Not applicable," 'Don't Know," and "No response"). Respondents had not perceived a gap of this magnitude in any of the previous items for this question: the comparable percentages for items a through e were 13, 12, 15, 12, and 16. For item f, then, the null response is noteworthy both for its accuracy and for its popularity.

Responses and nonresponses to item g, "Opportunities for helping others in various occupations," again suggest a significant gap in information resources. As indicated in Table 29, about 29 percent of those who had GIS would use it for this topic, about 18 percent of those who had a state computer system would use it, and about 16 percent of those who had the OOH would turn to it for information on this topic. But about 41 percent (national estimate) were unable to cite any resource with information relevant to this topic.

An anomaly appears in responses to item h, "Accessibility of various occupations to the handicapped" (Table 30). The number of respondents choosing the publication, Employment Opportunities for the Handicapped, was greater than the number who said they had it. It appears that some who did not have this resource recognized its face-relevance and named this resource rather than give a null response. About 14 percent of those who said they had "Other school-arranged experiences" indicated they would turn to such arrangements for information about accessibility of occupations to the handicapped. But a majority of all respondents (about 58 percent) did not name any available resource for such information.



For item i, "The most up-to-date local wage and salary information," national estimates show a considerable dispersion of favored resources. Over half of those who had state computer systems would use them as a source of such data, and 34 percent of those with "other periodicals' would turn to them (Table 31). About a quarter of the respondents with state microfiche (such as VIEW) would use it. About 23 percent of the CIS schools would use CIS (not all schools with GIS have state or local data files). About 18 percent of those with access to Occupations in Demand would use it (although it presents wage and salary data in very wide ranges for each occupation). About 17 percent of those with occupational briefs published by the state would use them. Presumably the II percent who would use the OOH assume that national information, with occasional regional comments, is as close as they can get. About 40 percent of the schools (national estimate) had named "Conferences with community representatives" as a resource; it is noteworthy that only about 9 percent of the respondents who had listed that as a resource in question Il named it here as a source of local salary data. This is a percentage that many would like to see increased. No resource at all was named by 27 percent of the schools (national estimate).

For item j, "Occupations which meet or exceed students' multiple specifications...," the computer systems (which are designed for structured access) were chosen by nearly half (49 percent and 46 percent) of those who had them (Table 32). It is a bit surprising that their relative frequency was not even higher. About 19 percent of the respondents who had the OOH would use it. Only about 12 percent of those who had a keysort or needlesort (also designed specifically to retrieve lists of occupations based on multiple specifications) would use it. About 35 percent (national estimate) did not name a resource to be used to get such information.

Perhaps the most striking finding from this question is the number and nature of topics on which no resources were perceived as available. We know that some of these topics are important to students in making career decisions—that is, many students tend to assign high weights to such considerations as security and job tenure and opportunities to help others. (Norris & Katz, 1970, Chapman, Katz, Norris, & Pears, 1977, Norris, Katz, & Chapman, 1978; Katz, Norris, & Pears, 1978.) And it is obvious that information about accessibility of occupations is of crucial importance to the handicapped.

respondents' global evaluations of resources. Question 14 attempted to get at respondents' global evaluations of resources. "Which two resources currently invitable in your school do you rate as most valuable overall?" First choice went most frequently to the OOH in the national estimate (Table 33). Relative frequencies based on the number of respondents who had a given resource in their school showed the computer systems to be most tavored (by about half the repondents who had them), followed by the OOH (about 3b percent), state microtiche (about 15 percent), and Chronicle (12 percent).



-60-

Question 15 asked respondents to name the two resources they would add at their school if budget permitted. Responses were widely dispersed, as shown in Table 34 for the first-choice responses. Responses differed within the three strata, and the findings are therefore rendered by stratum. The percentages are small whether computed as the percentage of schools in the entire stratum or the percentage of schools that do not have the chosen resource. Computer systems clearly tend to be favored as first choice over any other category of resource, appearing three times among the "top 10" in Stratum 1, and four times in each of the other two strata. Moreover, CVIS was at the top of the list of Stratum 1 and GIS for Stratum 3. The only resources that are among the top 10 in all three strata are CVIS and GIS among the computer systems, and state microfilm and courses in career planning. About 15 percent (national estimate) did not name any resource as first choice.

This null response increases to about 22 percent for the second choice. (Second-choice responses were not tabulated.) Again, frequencies for any resource were low, and again computer systems tended to be favored. About 5 percent named CVIS, and 3 percent each named COIN and GIS. Employment Opportunities for the Handicapped and school courses in career planning were each selected by 3 percent. About 3 percent also named Occupations in Demand.

Considering the relatively low cost of <u>Employment Opportunities for</u> the <u>Handicapped</u> and the fact that <u>Occupations in Demand</u> is free, one must wonder why those who value them highly would not have already added them to their school's resources.

3. Structure of Occupational Information

Structure refers to the way in which information is organized and accessed. "Students seeking guidance often don't know what information they need, don't have what information they want, or can't use what information the, have (Katz, 1963, p. 25). The structure of any resource can often cue students on the kind of information to look for, can help them find what they want or need, and can help them link information about occupations to information about themselves. In short, structure helps make information useful for decisions.

Fixed and flexible clustering systems. The previous section of this report emphasizes the structured access found in computer systems, as described in the two separate publications on Computer-Assisted Guidance. This is not to imply that publications (and other resources) are unstructured. The main distinction is tlexibility: Publications, by their fixed linear nature, permit occupations to be clustered according to a single characteristic or fixed set of characteristics. Topics likewise follow a fixed sequence. In computer systems (or keysorts or needlesorts), occupations can be clustered according to any specifications chosen by the user (from whatever dimensions are incorporated in the system). Thus a given occupation is not destined always to be associated with a certain array of other occupations, it can move from one group or cluster to another, depending on the specifications for search. Similarly, in a computer system, topics can be addressed in a more flexible sequence by asking specific questions of the data base and reading a pertinent display.



Much ado has been made of use of one or another classification system for clustering "related" occupations. It is important to note here that there is no single "best" system for all purposes.

Comprehensive occupational clustering and classification systems were developed mainly as a framework for extensive programs of data collection, storage, and publication.

Most of these systems were not designed to differentiate occupations in ways that are useful for making career decisions. Listing some of these major occupational classification systems and their publishers suggests that they serve a variety of purposes of federal agencies, such as the Census (U. S. Bureau of the Census, 1970), the Standard Industrial Classification (Executive Office of the President, Office of Management and Budget, 1972), the Office of Education (U. S. Department of HEW, 1971), and the Dictionary of Occupational Titles nine-digit code (U. S. Department of Labor, 1977). In addition, the Standard Occupational Classification (U.S. Department of Commerce, 1977), which took ten years to develop, was supposed to replace census categories and all other systems used by federal agencies to gather data. Thus although the various sytems were not designed to be compatible, attempts have been made to cross-reference them. each Standard Occupational Classification group includes a listing of DOT titles. It has also been recognized that, even though the systems are in general not directly useful in career decision making, the data (particularly as published in statistical series such as the census) often are: hence such developments as a census/DOT cross-reference tape (Temme, 1975). Nevertheless, the basic problem has persisted: The domain of occupational information represented by such systems is not isomorphic with the domain of individual differences defined and measured through psychological research.

Linking occupational to individual attributes. A new Department of Labor publication, Guide for Occupational Exploration (GOE), has been developed that purports to mediate between these two domains (U. S. Department of Labor, 1979). The recency of this publication no doubt accounted for the fact that it was reported as available at only about 11 percent of the schools (national estimate). Nevertheless, in view of its novel structure and the likelihood of more extensive use in the future, it warrants particular attention.

First, it should be pointed out that items used in interest inventories are generally very open and straightforward (e.g., calling for responses of like, Indifferent, or Dislike to a list of occupational titles). Therefore interest measures do not differ so much in the nature of their items as in their conceptual structure—the definition of the domain and of the dimensions that comprise ... Thus, given definitions of the dimensions, individuals' self-ratings on those dimensions are generally as useful as summations of much more tedious responses to long arrays of inventory items. A student is either knowledgeable about an item or ignorant of it. If a student knows enough about items that comprise a scale to answer sensibly, the items are probably unnecessary. If a student does not know enough, the item responses are probably invalid. So what is important about interest measures is their structure.



-62-

The GOE partitions the universe of 20,000 occupations first into 12 interest areas," then divides them into 66 groups based on "capabilities and adaptabilities," and further classifies them into 348 subgroups determined by a mix of criteria (such as materials and products involved, or hand work versus machines). The simplifying notion is that the user can start with interests (measured by an inventory or checklist with scales presumed to represent the same 12 areas), then narrow consideration down successively to smaller groupings or "families" of occupations on the basis of other traits and characteristics embodied in the classification and associated measurement systems.

Unfortunately, the GOE assigns each occupation to only one "interest area." Therefore an occupation that involves activities appealing to two or more kinds of interests is not retrieved from each area. For example, engineering occupations, including research engineers, appear in the Mechanical but not in the Scientific area. Furthermore, the sequential procedure prevents occupations from different "interest areas" (as defined by the GOL) from being considered in the same cluster. Yet occupations from different interest fields can resemble one another in a variety of other characteristics which may indeed be more important for some decision-makers than interest areas (Chapman, Katz, Norris, & Pears, 1977, Norris, Katz, & Chapman, 1978, Tittle, 1979). This rigid, hierarchic structure of the GOL illustrates the constraints imposed on publications by their very nature, as compared with computer-based systems that can screen occupations simultaneously on a number of variables selected flexibly according to their importance to the individual decision-maker. A flexible multivariate system permits a user to slice through the universe of occupations in many planes.

Mention of alternative clustering procedures raises the question (close to the heart of occupational choice) of what constitutes an occupation, along with the closely related question, in what respects can occupations be classified as similar or different?

People who hold the same occupational title often have varying opportunities to shape their own work. There is evidently more elasticity in some occupations than in others. For example, in some occupations there is a tendency toward "budding," the creation of new occupations. Occupations are not so stable over time as are biological species. Thus Psychologist has proliferated (in the Fourth Edition of the DOT) into nine defined titles and Crown Pouncer into three. It is noteworthy that the Psychologist titles in the GOE (U. S. Department of Labor, 1979) are split between the area designated Humanitarian (for Clinical, Counseling, and School Psychologists) and the one labeled Leading-Influercing (for Comparative-Experimental-Physiological, Developmental, Educational, Engineering, Industrial-Organizational-Personnel, and Social Psychologists).

The rubrics for the "interest areas" highlight some of the questions raised by the peculiar way in which the interest domain has been defined in the GOE. Many of the labels seem to pertain to the <u>object</u> of activities (e.g., Plants and Animals), to the <u>purpose</u> of activities (e.g., Protective, Humanitarian), and to the <u>setting</u> of activities (e.g., Industrial) rather than to distinctions



that might reside in the nature of the activities themselves. This problem is illustrated by the definition of the interest factor called Leading-Influencing: "Interest in leading and influencing others through activities involving high-level verbal or numerical abilities." Logically and semantically, this definition seems to identify two kinds of activity interests, one verbal and the other numerical. These might be applied to a variety of purposes—protective, humanitarian, and leading—influencing presumably being among them. Although this is not the place to examine critically the procedures by which the interest domain was defined and the factors identified, suffice it to say that they do not seem sound enough to warrant use as a primary basis for partitioning the universe of occupations.

The problem of sharply defining domains and dimensions is not confined to publications. It was suggested earlier that the domains of individual differences are not isomorphic with the domains of occupational information. This point warrants some clarification. For example, the term interests is often used loosely (ct. the GOE, described above, and also various computer systems), as it it characterized occupations. More strictly speaking, interests are not a property of occupations but of persons. Activities characterize occupations. Thus the activities involved in an occupation provide opportunities (greater or less) for satisfaction of any of an individual's interests. But simple trait-matching--"square pegs in square holes"--does not work. Many occupations require some variety of activities. While people in these occupations may be able to emphasize some activities more than others, in keeping with their own preferences, hey are rarely able to limit themselves only to the activities that appeal to them. At the same time, and conversely, people usually have a "surplus" of interests beyond those that correspond to occupational activities. Furthermore, some occupations require activities that hold very low intrinsic interest for most people, activities in others may be quite popular. In short, it is clear that--even when corresponding dimensions are identified--the distribution of interests in the population is far from identical with the distribution of corresponding activities in the world of work. Part of the content of choice, then, is first to decide how important it is to satisfy some major interest and second, only if it is important, to identify occupations in which a large share of the activities meet that interest. Systems that retrieve occupations on the basis of scores on an interest inventory--or worse, "having" or "not having" some interest -- often miss this crucial point.

In a similar sense, other traits of people are far from a perfect match with characteristics of occupations. Workers' abilities and aptitudes are often much broader than the requirements of their work, even when requirements include credentials as well as competencies. Corollary to this observation is the concept of multipotentiality: While some occupations require highly differentiated skills and talents, many others can be handled successfully by most of the work force.

Analogous to the problems of linking individual interests to occupational activities, and abilities to requirements, is the problem of finding appropriate connections between people's values and the opportunities for rewards and



-64-

satisfactions offered by occupations. As with interests and abilities, people have more values than work can fulfill; they can get some satisfactions and rewards from virtually any occupation, but (usually) none will provide complete satisfaction. So again there is almost always a need for compromise. Only the naivete of a Candide would expect perfect compatiblity between what a person wants and the opportunities for gratification offered by occupations and jobs. The solution again is to identify and define appropriate dimensions that link values to occupational characteristics. Given that some values are more important than others to any person, which occupations tend to provide opportunities for relevant rewards and satisfactions, and to what degree?

What is an occupation? Thus the occupational universe can be conceptualized in a multiple-domained multidimensional space. The domains might include nature of work activities, construed along dimensions which might correspond, in part, to various interest factors; requirements and opportunities for entry, with dimensions linked, in part, to amount and kind of education or training, aptitudes, abilities, and skills; and returns or instrumentalities—the opportunities offered by occupations for various kinds of rewards and satisfactions—with dimensions relevant, in part, to occupational values. (Work environment and conditions may be properties not so much of occupations as of jobs.) In any given case, it is important to note, the interface between individual characteristics and occupational attributes tends to involve only selected facets from each domain—not like the hackneyed square peg in a square hole, but more like the fit of a person to a park bench.

Each occupation represents some set of central tendencies on such attributes (i.e., activities, requirements, returns). Around this centroid are distributions on each dimension of each attribute, representing variations within an occupation. Obviously, a given pair of occupations may overlap in one or more attributes and differ in others. That is why no singular or hierarchic system for classifying occupations is satisfactory. Rather, the decision-maker needs to be able to select some reasonable number of dimensions that are important to her or him. Given a multivariate classification system, the universe of occupations can be screened on a selected set of specifications simultaneously, what is retrieved is a list of occupations that are—at some reasonable confidence level—similar in the respects specified. The list will change as specifications are changed.

In answering the question of what an occupation is, then, it is necessary to recognize that occupations are generalizations or abstractions from observed phenomena. They cannot be defined or described without the benefit of generalizations about such attributes as activities, requirements, and returns. As always in generalizations, some information is lost. This loss is outweighed by a gain in summary power. Granted, some jobs and positions within an occupation are out at the fringes of the generalizations. These deviations from the centroid cone into focus when one chooses jobs or positions. But the centroid itself (say, the mean plus or minus one standard deviation on each dimension) is what one chooses when one chooses an occupation.

This is fortunate for long-rang ecisions and plans, since the central tendencies represented by an occupation are more stable than the individual jobs and positions that it comprehends.



By the same token, since career decisions of secondary school students must be oriented to the future, it is desirable that appraisal of individuals focus on relatively stable attributes. Abilities, interests, values, temperaments, and other domains commonly assessed in individual appraisal for career decisions are often stable but often may indeed change with maturation, experience, and circumstances. Therefore it is important for decision-makers to learn not just a particular match between their characteristics and those of occupations at a given time but also the structure and procedures by which such linkages between characteristics of individuals and of occupations can be made. Structural rules for four distinctive models of career decision-making-representing a considerable variety of rationales and approaches embodied in ditterent systems-are described in the concluding section of Katz and Shatkin (1980), and need not be repeated here. The point is that a continuing sense of structure-the rules for linkages and decision-making-are an important component of what career information resources should provide.

4. Style

Differences in style, as well as scope, appear in the many media represented among guidance resources. Some tend to be relatively passive, like an occupational monograph filed in a cabinet. Others, like a display on a bulletin board, are more visible. Still others, like a counselor sending for a student, are active. Some sources of information tend to be vivid and memorable, like first-hand work experience in a slaughterhouse, others--like perusing the Dictionary of Occupational Titles-may seem dull and forgettable. Dramatization and exposition have different impacts. Pictures are different from words. Whether the same words are written or spoken makes a difference in what is communicated to various people. Each medium of communication has its distinctive characteristics, inherent virtues and disadvantages, and each style of communication may encounter a responsive or resistant style in the person to whom it is addressed. . . .

In addition, stylistic variations within any medium may be as great as variations between media. Thus all books are not written in the same style. a book may stimulate intensive activity in a reader, who will be spurred to frame questions, seek answers, carry on an unvoiced dialogue, or a reader may be moved only to scan it dutifully, fulfilling an assignment to cover certain pages. (Katz & Shatkin, 1980, pp. 39-40)

There is little to add here to the treatment of style which is introduced by the extended quotation above. As pointed out in that section, each medium is a distinctive art form, and there is great variation in the artistry of those who develop resources within any given medium.

Certainly at the most fundamental level, one function of style is comprehensibility to the intended consumer. Table 79 in Chapter & of this report shows



-66-

that students used various media with different frequencies to get information on a number of specified topics: work activities, prerequisites for entering an occupation, outlook, wages or salaries, opportunities for satisfactions, and "a list of occupations you might like." Students were then asked (for each medium), "Did you find the information you wanted?" and "Was it hard to understand the information?" (Questions 16-17 for publications, 22-23 for computers, 28-29 for microfiches, 34-35 for sorting cards—student questionnaires). Responses summed across strata are represented in Tables 35 and 36. Differentiations by stratum appear in Tables 37 and 38.

For publications, which had the most irrequent use, there was very little variation across strata: about one-eighth of the respondents found all the information they wanted, about half found most of it, and over a third some of it; only about 2 percent said none. To the question about difficulty, almost a third said sometimes and almost wo-thirds said no.

For computers, Stratum 1 tended to differ from Strata 2 and 3 in amount of information obtained: about a fifth of Stratum 1 compared with about a quarter of 2 and 3 got all. Strata 1 and 2 responses indicated a little more difficulty than 3 in understanding: about 64 percent said no, compared with 73 percent of Stratum 3. Thus computer systems, most widely used in Stratum 3, were also clearly most comprehensible there, and tended to be least informative in Stratum 1.

Differences across strata were also found in amount of information obtained from microfiche. About 60 percent of Stratum 1 students got all or most—the information wanted, compared with about 71 percent of Stratum 2 and 67 percent of Stratum 3; close to 70 percent of each stratum had no difficulty understanding the information they got.

Responses to sorting cards showed some slight differences between Stratum 3 and the others: across all strata, 61 percent found all or most of the information they wanted. The main difference was that 5 percent of Stratum 3 found none. The information was hard or sometimes hard to understand for about a third of the students. 60 percent of Stratum 3, compared with 64 percent and 65 percent of Strata 1 and 2 indicated no difficulty.

The single most noteworthy conclusion from students' responses to these items is that computer systems were more likely than the other media to provide all the information desired. Other than that, a considerable majority of students said they had obtained all or most of the information they wanted from whatever resource they used and a similarly impressive majority said the information was not hard to understand. While there were often differences between strata, these differences were not consistent across media or across items.

In questions 49-58 students were asked how much they know about various topics pertaining to an occupation they are thinking of entering. For each topic, they were then asked from which source they got most of this information. Table 73 in Chapter IX snows the most commonly cited resources for the five



topics. While responses are greatly dispersed, parents or relatives, someone in the line of work, and publications are the most frequently chosen sources for every topic, followed by teachers and -more distantly--by counselors. That these five categories led all others is in large part attributable to the fact that they are universally available. Then, for one topic, work activities, students were asked in Question 59 why they used whatever source they had named rather than some other source. Multiple responses were permitted, and there was of course considerable dispersion over the 10 options. It is interesting in discussing style, however, to note that the top five, pooling across strata, were "I wanted to get a general idea of that occupation" (about half the students), "I wanted t find out what it was REALLY like to be in that occupation" (almost half), "It was easy to get information from this source" (42-48 percent), "I thought that the information from this source would be up-to-date" (about 36-39 percent), and "I thought that the information from this source would be easy to understand" (about 30 percent). Thus of the five leading reasons, three appear to pertain quite directly to style: a sense of vividness and reality, ease of access or use, and comprehensibility. Of the remaining two, one ("general idea") seems to include scope as well as style, and the other ("up to date") applies to procedures.

5. Procedures

It is difficult to make judgments about discrepancies between data contained in different resources. Suppose, for example, two resources give different "average" salary levels for an occupation. Assume that both refer to the same year, and there are no other obvious reasons for the discrepancy, such as use of a mean in one case and a median in the other, experienced workers only vs. inclusion of beginners, and so on. Which is "correct"? There is really no way to tell except to look at the procedures each developer used to arrive at the respective figures.

In the beginning, one can assume that there is a universe of occupations and that there is a universe of facts about these occupations. Some of these facts have come under observation. Observations are collected and organized as data. Data, in tirm, are interpreted and transformed into information. Information, when filtered and absorbed by a student, becomes knowledge. Knowledge becomes useful as it feeds into decisions, plans, and actions. Thus is seen a systematic winnowing process. This process involves many decisions by the developer. Sources of data, methods of collecting, analyzing, and interpreting, training and responsibilities of staff, frequency of updating, use of reviewers, and so on.

Limiting the task. Consideration of procedures for even a few resources is a very lengthy task. For example, a concise handbook describing procedures for collecting and interpreting information for a single computer-based guidance system runs to 150 pages (Pears & Weber, 1980). Developers of most resources do not even report their procedures in any such formal way. So to dig out the necessary information, to describe and evaluate the procedures underlying every occupational information resource listed in Question II, would require



more time for this one section of one chapter of the report than was allotted for the entire study. It would also involve a great deal of repetition. Most information in most resources is not based on original studies. Rather, a few major primary sources are used again and again, with relatively minor adaptations of substance by the developer. (Changes in style are more noticeable.) For example, developers of most resources do not set out to do their own job analyses and define occupational titles from scratch. Rather, they depend on the Dictionary of Occupational Titles (DOT). Developers almost never do their own validity studies to discover the relationship between abilities and occupational requirements. They tend to rely on statements from another source. do they make their own national projections of occupational outlook. Instead, they use projections from the Department of Labor Bureau of Labor Statistics, such as appear in the Occupational Outlook Handbook (OOH). Therefore, to desa cribe and evaluate procedures for each resource separately would be an exercise in redundancy. Focusing on procedures undergirding the standard primary sources for national information enables us to cover economically some of the most important components of procedures for career guidance information in many resources.

State and local information is another problem. It is not realistic within the scope of this study to scrutinize procedures in every state and locality. Furthermore, many resources are by their nature fluid. That is, they vary not only from place to place but from one incidence of application to the next. Thus, in the extreme case one would have to consider every occupational unit in every class, every person in every work experience program, every career day, every job site tour, every conference with community representatives, every collection of audiovisual materials. To attempt to encompass procedures for all these fluid resources in this one section of one chapter would distort the study out of all proportion.

In addition, we have seen that some resources are only sparsely available. Others, though available, are rarely used. So it seemed best to concentrate on the most influential resources.

In short, then, we have used three bases for limiting our consideration of procedures: (1) major attention to primary sources, from which information is borrowed by other producers and publishers, with a few illustrations of variations in substantive adaptations; (2) standard resources, which are the same no matter where they are used, rather than fluid resources, which may be protean in shape and substance from one school to another; (3) availability and use, to cover the resources that are most nearly universal and of interest to the greatest number of people. The main focus in this section, then, is on such resources as the major Department of Labor publications (e.g., the DOT and the OOH) and the two most widely used computer-based systems, Guidance Information Systems (GIS) and Career Information System (CIS). Most of the conclusions apply, by extension, to many other resources.

Occupational definitions in the DOT. One illustration of a description of procedures is from the \overline{DOT} (U. S. Department of Labor, 1977). An important component of occupational information is the definition of each occupation; it



must be kept up to date as changes take place in industrial technology and in work activities. According to the 4th edition of the DOT (p. xiv),

. . . analysts on State Occupational Analysis Field Center staffs...make on-site job analyses of the spectrum of jobs in various industries to verify or revise the definitions. . . . The fourth edition is based on more than 75,000 such on-site analyses conducted from 1965 to the early- and mid-1970's, and on extensive contacts with professional and trade associations. . . . As a result of this program, over 2,100 new occupational definitions were added and some 3,500 deleted as compared with the third edition.

Procedures for constructing a definition are also described (U. S. Department of Labor, 1977) in terms of such elements as a lead statement, task statements, glossary terms, "may" items, and so on. The consistency of organization and style across occupational definitions attests to the effectiveness of a training program for job analysts. An important element of the training program is, one must assume, the Handbook for Analyzing Jobs (U. S. Department of Labor, 1972--which has presumably undergone later revision). Under the category of Work Performed, the handbook spells out Worker Functions, Work Fields (including "Methods verbs" and "machines, tools, equipment, and work aids"), and "Materials, products, subject matter, and services." Sentences are constructed according to a consistent, formalized pattern. Typically, a erb at the beginning of a sentence (the worker is always the implied subject) states a worker function. The immediate object of the verb designates the machine, tool, equipment, work aid, people, or some form of information that is acted upon or is the product of the action. An infinitive phrase or prepositional phrase often follows, with the infinitive or gerund indicating a work field and the object of the infinitive or gerund naming "Materials, products, subject matter, or services."

As prose, these definitions lack grace and color. But that is a matter of style, and here we are concerned with procedures. For all their dogged formality and stiffness, the definitions manage to achieve consistency and precision in concise form across thousands of occupations analyzed and defined by staff from eleven Occupational Analysis Field Centers.

Selection of occupational titles. Criticism is always possible. Landrum and Strohmenger (1979) complain about gross imbalance in favor of industrial occupations: fourteen different kinds of welder are defined in detail, but only one kind of secondary school teacher, oceanographer appears only as a related title, with no separate definition. Interences about procedures cannot be made unequivocally from such decisions on which titles to define, but a guess is that the site visits tend to be mainly at large industrial establishments. Also, some occupations are by their nature more observable than others: therefore, the job analysis procedures evidently permit distinctions to be more readily made in terms of visible activities than intellectual activities.

Scales for Data, People, Things. Another type of criticism can be addressed to procedures for interpreting and organizing information about work activities



into levels of skill required in three areas. The hierarchic scales for Data, People, and Things are represented by the three middle digits of the nine-digit occupation code in such a way as to imply parallelism--as if a given number represented a similar level of complexity in each of the three functions. is misleading. For example, under People, levels 0 to 5 are used for activities labeled Mentoring, Negotiating, Instructing, Supervising, Diverting, and Persuading, respectively. On the face of it, these all appear to represent a high level of complexity. Under Data, on the other hand, just levels 0 to 2 (Synthesizing, Coordinating, and Analyzing) and under Things only 0 to 1 (Setting up and Precision Working) appear high. Telescoping the six to eight levels now used into three--high, medium, and low--would provide a closer and more useful approximation to equivalency of the scale across areas while avoiding finer discriminations than the concepts and data permit. Incidentally, a reasonable addition would be to establish a level higher than "Setting up" under Things: this would be designated "Inventing or Designing," and could include work in the fine arts. At present, occupations like sculptor and painter are classified as 061 on Data, People, Things. "Synthesizing" (the 0 on Data) is defined by the DOT as "Integrating analyses of data to discover facts and/or develop knowledge of concepts or interpretations." This definition does not fit the design and workmanship required of the sculptor or painter who works with visual and material elements rather than data, and the rating of "Precision Working" (the 1 under Things) falls short of describing the level of creativity involved. (Since the arrangement of levels purports to be hierarchic, "Precision Working" would be subsumed under "Inventing or Designing.") Adding "Designing or Inventing" at the O level would bump the other descriptors down a notch on the scale; providing an additional high-level activity under Things would help bring that scale into closer equivalence to the other two scales. Of course, if the scales were telescoped into high, medium, and low, the need for discrimination between "Inventing or Designing," "Setting up," and "Precision Working" would disappear. The hierarchic arrangement for the first six levels under People is particularly difficult to defend.

Another addition to procedures is recommended here: the development of a comprehensive thesaurus of verbs for work activities at each level (high, medium, or low) to assist analysts in determining which activities (other than the ones now designated by six to eight terms in each category) warrant rating an occupation at a comparable level. A substantial step towards completion of such a thesaurus has already been taken for the three levels of skill and complexity (high, medium, and low) under Data, People, and Things. Figure 1, extracted from a procedural handbook for obtaining, developing, and interpreting occupational information (Pears & Weber, rev. 1980), illustrates the present stage of accomplishment.

Clearly, such criticisms notwithstanding, the magnitude of the effort involved in developing the <u>DOT</u> occupational definitions makes this volume a major source for developers of other occupational information resources. While the limitations of the <u>DOT</u> for use by students in making career decisions are well known, a dictionary must be evaluated mainly by its definitions, and these have much to be commended.

Physical demands and working conditions are directly observable by job analysts, and there is little fault to be found with analysts' ratings of such occupational characteristics as the amount of weight that must be lifted,* whether stooping is required, whether work is done inside or outside, with or without severe noise and vibration.

One cannot say as much for the success of procedures for racing occupations (in previous editions) on such worker traits as "interests," "temperaments," and aptitudes. The <u>DOT</u> has been more successful as a dictionary than as an encyclopedia. When job analysts are asked to shift from observation to inference, they need more rational structures and procedures than have been provided for interests, temperaments, and aptitudes.

Interests. The decision to use as interest dimensions the five bipolar factors that emerged from Cottle's analysis of the MMPI, SVIB, KPR, and Bell inventories is difficult to understand (Cottle, 1950). So is the decision to designate a given factor merely as "important" or "not important" rather than scale or rate its degree of importance. In any case, the dimensionality of the domain has now been revised and the classification of occupations in such terms has been transferred to the GOE. The GOE has been discussed above, and the critique need not be repeated here.

<u>Temperaments</u>. Apparently, temperaments will be incorporated in another supplement. (Similarly, ratings of occupations on aptitudes, physical demands, environmental conditions, and education and training time have been omitted trom the fourth edition and reserved for future supplements.)

It may be inferred from the 1972 Handbook for Analyzing Jobs that the new sup; lement on "temperaments" will embody dimensions somewhat different from those in the third (1965) edition of the DOT. Some pairs of separate dimensions in the third edition were defined as it to represent opposite poles of a single dimension—for example, (1) variety and (2) repetitive operations, (5) working with other people, and (6) working alone. The first pair survive in the Handbook as V (variety, change) and R (repetitive, continuous), but (6) working alone has disappeared.

As far as the current <u>DOT</u> is concerned, there would be no need to evaluate procedures for information on 'temperaments' that appears in obsolete editions. Unfortunately, however, many other resources of all kinds have based their information on these worker traits incorporated in the third edition of the <u>DOT</u>. They appear to have done so rather mindlessly, perhaps because the <u>DOT</u> <u>Data Display Tape was there</u> with occupations neatly categorized as to whether certain worker 'temperaments' are or are not 'important.'



-72-

^{*}This judgment is contradicted by a study of inter-rater reliability (Cain & Treiman, 1981), which appeared while this report was being printed: Job analysts' ratings of strength required for a sample of occupations were shown to be very unreliable.

The problem with the <u>DOT</u> "temperaments" is mainly conceptual. This reviewer was unable to find any rationale for the way in which the domain was constructed or the dimensions selected. The relationships between the dimensions are not clear—for example, it seems likely that just as some pairs of constructs, such as "variety" and "repetition," are negatively correlated, other pairs, such as "direction, control and planning" and "influencing," must have a high positive correlation. The illustrations in the <u>Handbook</u> point up the inevitability of this outcome: one illustration under "influencing" starts, "Plans and directs educational campaigns..." (emphasis added).

The fact that developers of other resources using the DOT "temperaments have experienced a problem in identifying the domain points up the conceptual problem. For example, the QUEST questionnaire for CIS introduces paraphrases of some of the "temperaments" by stating, "AATURE OF WORK. People have different personalities, and so do jobs. Your personal likes, values, and interests will affect the kind of work you choose." (Emphasis added). GIS encompasses a number of the "temperaments" under the rubric of "ITTERESTS," folding them into the major categories of "people," "ideas or numbers," and "things or machines." The Ohio Career Information System refers to them variously, under the heading "Work Activities Which Describe the Occupation," as "personal adjustments," "job demands," and "work situations (activities). These dimensions clearly overlap with a separate set of dimensions called "Interests" by OCIS. While the Levelopers of these other systems may be faulted for their mindlessness in mingling, mangling, and copying such ill-defined dimensions from such illdifferentiated domains, the DOT developers can not be held blameless. ments" have been named without palpable foundations in research, theory, or rationale and have proven highly susceptible to the _jingle' and _jangle fallacies.

Aptitudes. There are difficulties also with DOT ratings of aptitudes, and with the subsequent slavish use of these ratings by other resources in so-called career information or guidance systems.

The derivation of the DOT aptitude categories -- unlike the temperament dimensions--is clear. They have been taken essentially from the General Aptitude Test Battery, developed by the U.S. Employment Service and used by the State employment service offices since 1947. In that period, a great deal of developmental work and research has been accomplished as described, for example, in the most recently available Manual (Department of Labor, 1970). At that point, the GATB had evolved into 12 tests contributing to scores on 9 aptitudes: 6 (Intelligence, or general learning ability), V (Verbal), A (Aumerical), S (Spatial), P (Form Perception), Q (Clerical Perception), K (Motor Coordination), F (Finger Dexterity), and M (Manual Dexterity). Norms had been derived from a sample of the 'General Working Population' (in the age range of 18 to 54), and scores had been converted to a standard score scale with a mean of 100 and a standard deviation of 20 for each aptitude. Studies had been accumulated of the relationships between GATB scores and various criteria of successful pertormance in occupations and in training programs. Job analysts had also continued to rate the relevance and importance of the various aptitudes for each occupation and groups of occupations.



In derive norms for specific occupations, the kinds of data indicated above were considered together. That is, for each occupation a preliminary set of aptitudes was selected from some combination of those with relatively high mean scores, relatively low standard deviations, significant correlations with the criteria of successful performance, and ratings of critical or important in job analyses. From the preliminary set an Occupational Aptitude Pattern (OAP) was determined using dichotomized criterion groups. The OAP set minimum scores on three aptitudes for a given occupation such that most of the individuals in the high criterion group would be qualified, most of those in the low criterion group would be screened out, and the proportion screened out would approximate the proportion in the low criterion group. The standard used for judging the validity of the OAP was its relationship with the criterion—a phi coefficient significant at the .05 level.

There has been, as might be expected, some difference of opinion about these procedures. Much of the controversy has focused on the use of multiple cutting scores rather than a multiple regression analysis for selection and guidance of prospective workers. For example, Weiss (1972) points out that the OAP approach "fails to give any indication of the relative probabilities of success if the individual qualifies for more than one OAP." To this, one may add that since the aptitudes are positively correlated--the median correlation was .44 in an intercorrelation matrix based on 23,428 employed workers, applicants, apprentices, students, and trainees (U.S. Department of Labor, 1970)-people at or above the mean on one aptitude (say, 6) are quite likely to "qualify" on OAP's for a large number of occupations. Weiss goes on to suggest that "at a minimum counselors (and presumably counselees) should be provided with tables of 'hit rates' for predictions of success and nonsuccess. Weiss also objects to the tailure of U.S. Training and Employment Service (USIES) to do empirical studies, from data in its files, comparing multiple cut-off with other prediction methods.

To Weiss's critique one may also add that use of multiple cut-off procedures is incontrovertible when strength in one relevant aptitude cannot compensate for deficiency in another: for example, airplane pilots require good vision, and people who are tone deaf--regardless of their other aptitudes--have not been able to succeed in sonar training. But aside from such obvious situations, the more general finding is that strength in one predictor tends to compensate tor weakness in another. Then multiple regression techniques that weight and sum aptitudes into a composite are usually more valid. Lord (1962) has provided a strong demonstration that this conclusion holds particularly when the predictors are fallible, as in the case of test scores, because the desiderata in the selection procedure are surely unrelated to the errors of measurement . . ., yet the selection is determined in part by these errors of measurement . . . [p. 19]. Other things being equal, either low reliability of predictors or high correlations between them tends to increase the difference between the multiple-cutting-scores selection region and the optimum selection region (p. 29). He concludes, 'Anvone now using multiple cutting scores with . . . [such] predictors would do well . . . to allow a high value on one predictor to compensate at least partially for a 40% value on another (pp. 29-30).



Weiss (1972) also suggests the GATB--d veloped originally for a largely "blue-collar" labor market--has not changed with the shift to a largely "white-collar" labor force. He recommends basic revisions. Indeed, the Manual notes (p. 350) particularly low validities for clerical and other jobs for GATB administered in the late 1950's and early 1960's to high school students who were followed up two years after high school graduation.

These--and other--criticisms of the OAP's and operational use of GATB for career guidance are cogent. Nevertheless, there is much to be said for the long-term large-scale development and research undergirding the use of GATB. If one wants to attempt to predict success in a large number of occupations, there is simply nothing remotely comparable to it in scope of accumulated research over four decades. The USTES has confronted problems of enormous complexity and difficulty and has made the necessary compromises by and large in a reasonable way. In an applied program of this sort, it is impossible to do everything in a perfectly clean and rigorous way. world is too messy for that. The difficulties of getting representative samples and good criterion measures for many occupations, the pile-up of obstacles to longitudinal studies, the pitfalls in trying to interpret data in a useful way under diverse circumstances, are well known to anyone who has labored even a little in this vineyard. Even though the grapes are sometimes more desiccated and less abundant than we would like, we must be amazed that a harvest has been accomplished at all.

In short, the procedures involved in GATB development and research are open to criticism. They may be useful for selection, in which even modest validities may lead to higher criterion outcomes. But they are of very dubious utility for guidance. One may indeed make a case against their use for guidance as misleading and therefore counterproductive. But, whatever their shortcomings, there is nothing better available for prediction of success in occupations across the whole spectrum of work in America. Whatever doubts are entertained against use of the OAP's for guidance, the procedures for providing the information are themselves—for the most part—explicit and rational. They represent a reasonable compromise between scientific rigor and pragmatic expedience.

Unfortunately, this massive research base for GATB is virtually abandoned—or compromised too much—in the procedures for using the GATB categories in the DOT. Only the factor categories have been retained, and even these have not been kept up—to—date: for example, by 1970, E, eye—hand—foot coordination, had been merged into K, Motor Coordination, with which it was highly correlated; yet the current DOT tape—which is used by career information systems—retains E.

Of still greater concern is the abandonment of "hard" data, accumulated through so much travail, providing norms and validities for the aptitude scores based on samples or people in many occupations. Substituted for empirical data are the judgments of job analysts, who decide which aptitudes are relevant for an occupation and what level of each is "required" for "satisfactory (average)" performance. The levels are defined on the following scale: 1 = the top 10 percent of the "general working population," 2 = the next 23 percent, 3 = the middle 33 percent, 4 = the next 23 percent, and 5 = the lowest 10 percent. These ratings on aptitudes judged significant for 12,099 occupations appear on



the current <u>DOT</u> Data Display Tape and are used directly by GIS and CIS, the most prevalent computer-based information systems nationally, as well as by other resources, although there are some minor differences from one resource to another in the transformation and use of the scales. For example, in the GIS Guide for student use, Edition II (TimeShare, 1979), an aptitude is listed for an occupation "only if the job requires a high degree of that aptitude (i.e., the top 40 percent of the population)." In other words, aptitudes that are deemed relevant and are scaled level 1 or 2 on the <u>DOT</u> tape are regarded as requirements for a given occupation. (The use of 40 percent in this context rather than 33 percent is a misinterpretation by GIS of the <u>DOT</u> scale.)

level for 2, according to the scale defined above, is at or above the o7th percentile rank in the general working population. This rank is tantamount to a standard score of 109 on a GATB aptitude. Of the 62 OAP's listed in the tSTES Manual (U. S. Department of Labor, 1970) only one has all three components above this level, and 57 have all three components below this level. When an aptitud is above this level, it is invariably G, N, or S. There are no OAP's at level for a tor P, K, F, M, Q, and V. In other words, research data would support the use of only G, N, or S as "required" for an occupation under the GIS rule.

We examined the consequences of the procedure that is actually used by GIS for a few occupations chosen at random. GIS lists seven "aptitudes required' tor Architectural Drafter: N, S, P, Q, K, F, and M. Reference to the USTES Manual (Department of Labor, 1970) shows an OAP of NSP (90, 95, 90), with a phi coefficient of .22. The correlation coefficients for K, F, and M with the criterion are not significantly different from O. Thus students who take the GIS (DOT tape) list of "aptitudes required' seriously might disquality themselves trom the occupation on grounds of low K, F, and M abilities even though the research data snow no relationship between scores on these aptitudes and performance on the job. Furthermore, they could be below levels 1 and 2 on 3, s, and P and still qualify. This is to say nothing of the great fallibility of their probably unintormed perception of their own standing in these aptitude dimensions. Thus two sources of probable error are compounded: a job analyst's judgment of aptitudes required and a student's assessment based on a one-sentence definition of each aptitude. (Furthermore, even lower cutting scores than the DAP's should be used for 9th and 10th grades.)

ols lists six "aptitudes required" for Dental Hygienist: V, N, S, K, F, and M. The Manual shows an OAP of GSP (105, 95, 100). The phi coefficient for this OAP is given as .54. Again, K, F, and M are not significantly correlated with the criterion. Again, people below levels 1 and 2 on G, S, and P would qualify according to the research data.

GIS lists only one aptitude required for plumber, i. The OAP is NSM (80,95,60) with a phi = .19. Correlations with the criterion are significant at the .01 level for . and S, as well as for M = the Manual lists them as .30, .29, and .20, respectively, in the validation sample, of the three aptitudes, only N was significant (at the .05 level) in the cross validation, with a coefficient of .25. Incidentally, Q was significantly correlated with the



criterion in both samples, the coefficients being .30 and .22, respectively. If aptitudes below levels 1 and 2 were included for Architectural Drafter and Dental Hygienist, why were N and S not included for plumber, especially since the cutting score for S (95) is higher than for M (85) on the OAP? Thus the DOT tape, as represented by GIC, is not even consistent in the direction of its departure from a research base.

CIS, as indicated above, uses the <u>DOT</u> tape in a slightly different way from GIS. It designates level 1 as High, levels 2 and 3 as Medium, and levels 4 and 5 as Low. The instructions to the student also take on a somewhat different connotation: While GIS speaks of aptitudes that an occupation requires, listing only occupations that are at levels 1 and 2 on the <u>DOT</u> tape for a given aptitude, CIS invites the student to "Mark the highest level of [the aptitude] you want to use on a job." (Emphasis added.) Then, any occupation rated at or below that level on the <u>DOT</u> tape would be retrieved.

Another important distinction between GIS and CIS is that GIS makes students' use of aptitudes optional—a student can bypass the entire array—whereas in CIS the "abilities" section is part of a universal sequence. A student can, in effect, duck a given aptitude by responding "not sure" instead of low, medium, or high—but some response is called for on each of eight "abilities." GIS includes a total of ten aptitudes from the DOT tape; it omits G, reasonably enough since G is a function of tests that overlap those contributing to V, N, and S. CIS, however, includes G, but omits Color Discrimination and the GATB S and N, it also adds 'Physical Activity" to the aptitudes, makin', a total of eight.

Notwithstanding these differences between GIS and CIS, the use of the DOT tape results in essentially the same departures from a research base for one system as for the other. Jus the criticisms addressed at GIS, above, apply equally to CIS. There is at least one additional serious anomaly in CIS. The aptitude domain is defined differently under direct access from the way it is defined under structured search. That is to say, the written descriptions of aptitudes for an occupation include dimensions quite distinct from the aptitudes used to retrieve occupational titles. For example, CIS describes "aptitudes" for Salespersons as follows: "Average ability to do arithmetic; ability to stand for long periods of time, communicate clearly, and to deal with the public." The punctuation here is troublesome: it is not clear whether everything after the semicolon represents one aptitude or three. In either case, there is no such one aptitude listed in QUEST (the questionnaire in which students specify the aptitude levels) nor does it contain any aptitudes remotely resembling either "stand for long periods of time" or "deal with the public." (Illustrations are limited to GIS and CIS here only because these were by far the most widely used computer systems in high schools.)

A sampling of the various state microfiche systems (VIEW) indicates that they conceptualize the aptitude domain in rather indiscriminate ad hoc terms. For example, in Florida VIEW the following "Scholastic Aptitudes" are listed for Plumber. mathematics, chemistry, welding, blueprint reading, mechanical drawing, metal and wood shop. Oklahoma VIEW lists the following "Aptitudes" for Plumber. work from awkward positions, work without direct supervision (but



'preter working alone' appears in an adjacent column under Personal Traits!), beir responsibility for correct decisions, work indoors or out, tolerate dirty, impleasant conditions, tolerate unpleasant odors. For Sales Clerk, the tollowing "aptitudes are listed: meet the public, speak and write clearly, uptitude for basic arithmetic, adapt to fluctuating situations. Florida VII.W lists these "Scholastic Aptitudes" for Salesperson: catch on quickly, remember things well; think up new ideas; understand instructions, talk easily with people, do math problems quickly, use math to figure costs, pay attention to 'Abilities" for Accountant are described by Missouri VIEW as follows. Understand and apply instructions and principles of a complex nature, reason and make judgments, organize complex data, make reports both orally and in writing, think mathematically; do accurate work. "Abilities" for Accountant are listed by Tennessee INFOt as follows. be able to write clearly in a small space, be able to concentrate for long periods of time; be able to do detailed work, be able to figure mathematical problems. Under "Personality is listed 'work accurately.'

It is apparent from all this that the 'aptitude" domain is construed in career information resources just as chaotically as the "interest," temperament, or 'personality' domains. In each case, there appears to be little agreement on the dimensions that comprise the domain. Even those who use the DOT tape select different components from it and apply them in different ways. Research, such as it is, is virtually ignored. "Apritude" appears to mean whatever a given developer decides it is to mean in describing a given occupation. There is little consistency across resources for any occupation or across occupations for any resource. An aptitude may sometimes be synonomous with a physical demand, a temperament, a working condition, an interest, a preference, a requirement, or some other characteristic of personality or occupation. Procedures appear, in general, to lack rigot, clarity, definition, consistency, or logic.

Outlook. It was noted above that about 60 percent of the respondents to the school questionnaire chose the Occupational Outlook Handbook as the resource they would use for information about "employment outlook in various occupations over the next 5-10 years." The OOH is not only a direct source of such information, other resources--publications, computer systems, microfiche, and so on--tend to rely heavil, on it. This information is particularly important to students who are considering a long-term commitment to education or training tor a specific occupation. Demand/supply ratios observed when the decision to undertake the preparation is made may change by the time the preparation has been completed. Decisions made in the light of current rather than accurately projected information may tend to produce imbalance between demand and supply in some occupations and even oscillations in the direction of the imbalance (the phenomenon that economists call "cobwebbing"). Since occupations that require long preparation tend to be relatively 'impermeable," market forces annot be counted on to correct the imbalance, indeed, because the effects of responses to the imbalance at a given time are delayed, market forces may ontribute to the oscillation. Accurate, comprehensible, well disseminated projections might dampen such oscillations and reduce the severity of the imbalances. On an individual scale, they might help students assess fur re employment opportunities more rationally before making a long-term commitment.



Evaluations of OOH projections in the past have shown them to be fairly accurate at a high level of aggregation, but more likely to be well off the mark for specific occupations (Swerdloff, 1969; Personick & Sylvester, 1976). Kelley, Chirikos, & Finn (1975) conclude (p. 46) that "complex predictions are little more than best guesses," because of unforeseen events, government decisions, technological change, and the absence of manpower considerations in formulation of public policy. The most recent evaluation compared the projections made in the late 1960's with outcomes in 1975 (Carey, 1980). Major group projections tended to be quite accurate, ranging from a 6.7 percent underestimate of clerical workers to a 9.1 percent overestimate of operatives (probably attributable to the 1973-75 recession). Differences between projected and actual employment in detailed occupations ranged from -43 percent for personnel and labor relations workers to +136 percent for plasterers, with the error for all 76 occupations evaluated averaging 20.8 percentage points. The direction of employment change betwe 1960 and 1975 was projected correctly for 64 of the 76 occupations. General , results were more accurate for occupations with large numbers of workers (over 50,000).

To those who find the accuracy of the projections unimpressive, it should be emphasized that <u>OOH</u> ofters projections, not predictions, that assumptions about events—including absence of major war or depression—are clearly stated, and that biennial corrections and adjustments help to mitigate the effects of errors.

On the other hand, it must be noted that errors on the demand side may not be so difficult a problem as errors on the supply side. Demand consists of two main components: growth and replacement. Projetions of growth in an occupation are most prone to error. They are, in part, de ived from projections of growth by industry (which in turn is usually based on a model of the economy in the target years) and then allocated according to the distribution of occupations among the industries. Thus in the past, mistaken projections of growth of entire industries, such as construction and communications, have thrown off growth projections for many occupations. Replacement rates for occupations, however, can be projected quite well on an actuarial basis (for example, death and retirement rates are usually predictable from age distributions, and numbers transferring from most oc upations can be reliably estimated). Since replacement is a far more important factor than growth, forecasts of demand are generally well anchored. For example, Pilot (1980) points out that "Replacement needs due to deaths and retirements, on average, account for about twice as many openings as those from employment growth" (p. 5), and there is an indication that transfer and other separations are a larger source of job openings than all the above-mentioned sources put together. Pilot also describes improved data collection for reducing errors in projected growth. These appear to be reasonable and promising improvements for projecting growth across the total spectrum of occupations.

Procedures for projecting he supply side of the equation do not appear to be nearly so explicit or well developed as for the demand side. Hard data scarcely go beyond numbers of people in each age cohort and the proportions expected to attain various educational levels, which are then regarded as the



supply "pool for various occupations. Useful "structuril supply models (Depirtment of Labor, 1974) have apparently not yet been developed. For permeable occupations, the supply tends to be quite clastic and can respond ripidly to market forces. But, as indicated above, the lag in information about the market for impermeable occupations that require prolonged education or training may cause severe displacements in supply—the number coming out of the preparatory pipeline cannot be drastically changed on short notice. People who have prepared in college to become history teachers cannot abruptly qualify as engineers. By the time that word of a current surplus of history teachers and shortage of engineers reaches students entering the pipeline and by the time they emerge from their educational preparation, the imbalance between demand and supply in these occupations may have been rectified or even reversednence, the oscillation that has often been observed in certain occupations.

It will be interesting to see whether the recent proliferation of computer-based occupational information systems (Katz & Shatkin, 1980) will make current outlook information much more widely used by secondary school and college students and thereby tend to damp the oscillations. These systems do not contain better information about demand than is now available in the OOH and related Department of Labor publications, but there are some signs that they may improve the speed of communication of such information to students who are making educational decisions, plans and commitments. The question is one of timely use and understanding of information, it is hoped that Study 2 findings will shed some light on this question. Perhaps also continuing research on career lines or trajectories will illuminate the common-sense knowledge we have of permeability and transferability and therefore of potential supply. Which occupations are likely to be entered from which other occupations? What are the probabilities of entering a given occupation from a given major field?

Meanwhile, all in all, the OOH is a commendable source of state-of-the-art intermation about outlook. Particularly commendable is the recognition of need tor an ongoing program of evaluation, research, and development to improve procedures. while this program appears to emphasize improvement of projections of growth, one wonders whether this component should receive as much emphasis as it does in the OOH write-ups. In our observation, many students tend to misunderstand growth projections as representing outlook projections. They tail to place such phrases as. Much faster than the average for all occupations, or More slowly than the average for all occupations in context with the number employed in the occupation and the prospective demand-supply relationship. court is, the construe rate of growth as representing the demand-supply relationship. Even when the projected rate of growth is the same for two occupations, the projections may have different implications when the absolute number of persons in the occupation is large or small--and will certainly have different imp. itions if the projected demand and/or supply varies. One wonders also whether it would not be useful to include in the OOH the Bureau of Labor statistics estimates (generously shared by BLS with other resource developers) · annual number of openings expected in each occupaty...

Perhaps the most frustrating problem associated with the <u>OOH</u> is the inclitable lag between data collection and biennial publication schedule. This problem applies not only to outlook, but to other information as well, particularly earnings and (unexpectedly) addresses of 'sources of additional



-80-

information." Perhaps none is more subject to conspicuous obsolescence than wages and salaries.

Wages and salaries. While the OOH is a primary source of information on outlook, all other information contained in it is second hand. Since some other resources derive a great deal of their information on such topics as national wages and salaries from the OOH, these resources at likely to contain information that is very much out of date indeed. For example, the latest primary source on earnings for a given occupation—say, a survey conducted by a processional association—might contain data two to three years old when the OOH goes to press. That edition of the OOH is then in use for two years. A resource lifting the information from the OOH may go unrevised for another year or more. During a period of high inflation, with dollar amounts of wages and salaries rising rapidly, such information may be almost ludicrously obsolete when it reaches a high school studen

The argument can be made that outdated salary information is of no great consequence to students who are not on the verge of entering the labor market: the picture may well change even more by the time they are ready, and the important thing is that relative levels of different occupations be adequately impresented. This argument has at least two weaknesses: first, that conspicuously obsolete information destroys the credibility of the resource, and second, that when relative levels do change over a five-year period the changes are likely to be particularly noteworthy.

One solution to the problem of obsolescence is to date every bit of information on salaries and wages. The difficulty here is that, since surveys and other primary sources are not done at the same time for all occupations, there will perforce be different dates for different occupations. A student may not notice the discrepancy in dates, or may well be confused by such asynchronous data and be unable to make appropriate comparisons between occupations. The expert--the developer of an information resource should be expert in such matters--is much more capable of projecting figures, when necessary, to a uniform date. Our experience has been that at a given date in one year actual salary figures (based on completed surveys, federal government GS levels, public school teachers'salary schedules, and other such primary sources) for the previous calendar year will be available for at 1 ist a third of the $200-\overline{500}$ occupations most commonly included in wellnown career information resources. (The operative date is of course the year covered by a survey, not the year in which a survey is published.) Appropriate inflation factors for the remaining occupations can be determined from such annual series as Bureau of Labor Statistics releases on percentage increases for groupings of occupations (e.g., health) and the like. The accuracy of the projection procedure should be checked by systematically applying the same procedure retrospectively to occupations for which good actual figures are available. We have found such projections to be accurate.

National data on earnings are seldom comprehensive. Thus the OOH and other secondary and tertiary resources will often venture an "average," sometimes only a range, sometimes a range of "beginning salaries," sometimes a range for "experienced workers," sometimes an estimate for certain subgroups—for example,



those employed by government—and so on. Clearly it is not possible to get equally accurate data on all facets of earnings associated with every occupation. Still, it seems worth some effort to define facets in a systematic and consistent way and then to give the best information available, with full acknowledgement of gaps and deficiencies. The categories of earnings should probably include the following (whether the base is national, state, or local): beginning, median, maximum possibilities, and variation. Each of these is susceptible to further detail—for example, variation can be by geographic location, experience, education, age, type of employer, and so on. Each category has obvious implications to a student, and one without the others may be misleading. Yet information about many of these categories is absent from most resources.

Values. It was noted earlier that substantial numbers of respondents to the school questionnaire were unable to name any resource for information about security or job tenure in an occupation, and about opportunities to help others. This is not surprising, since most resources have not developed procedures for obtaining, developing, and providing information about nonpecuniary rewards and satisfactions, except perhaps for activities related to interests. Secondary school students who value, for example, such intangibles as security, helping others, autonomy, prestige, variety, and leadership may look in vain for direct information about opportunities to realize these values in various occupations. When inferences made by job analysts are provided (as under some of the DOT "temperament" categories), the procedures that have gone into structuring the domain, defining the dimensions, and determining the ratings of occupations are not sufficiently explicit to be clear and not sufficiently undergirded by research to be convincing. Yet the tasks of clarification, research and application in this domain are manageable. Procedures for establishing the structure of the domain (and its independence from other domains) in terms that are relevant to students have been described elsewhere (Katz, 1963, Norris & Katz, 1970, Katz, 1974, Chapman, Katz, Norris, & Pears, 1977), and procedures have also been described in practical detail for defining each dimension, defining scale points on each dimension, and rating occupations on the scales (Pears & Weber, rev. 1980).

A suggestion. More could be done, however, in the way of first-hand data collection. Here we may note the custom, common to many resource developers, of using reviewers who are particularly knowledgeable about an occupation to check all the information going into the resource about that occupation. An important additional procedure could build on this custom: it would entail periodic surveys of a more extended panel of people in each occupation--indeed a representative sample of participant-observers who would serve not just to check information but to help collect and develop it. While this might be too expensive an enterprise for most resource developers to take on singly, it could be managed as a cooperative venture. Sampling and data collection could be handled by a single agency; the questionnaire could include a body of common items, with all developers sharing costs and responses. Each developer could also be allowed a limited number of additional items for a surcharge and would be the sole recipient of the responses to them. In this way, no one approach would be favored. Developers would be able to get the unique information they want economically, by piggy-backing it on the common information they all want. They would have more of a voice in national data collection, instead of having to take or leave the outcome of whatever kinds of data some agency of the



Department of Labor decides to collect and interpret and whatever procedures it uses. The lead role in establishing such a cooperative venture could probably best be undertaken by NOICC.

6. Costs

Costs of resources are not easily determined. Purchase prices, subscriptions, or rentals of publications, audiovisual equipment and media, computer hardware and licenses, microfiche, needlesorts, and so on are only one component of cost. Another major component is staff time required. A computer system or publication that can be used independently by students is less expensive than one that requires considerable staff assistance. Space and other overhead costs are also difficult to isolate, yet are likely to vary considerably. Cost should also be a function of use. If a school purchases or leases a computer terminal and pays an annual license fee for unlimited access to a computerized information system, the total cost will be the same whether the terminal remains idle for six out of the seven hours a day it is available, or is used continuously. But the difference in cost per student hour of use would be enormous. In the same way, publications, audiovisual materials, and the rest are less costly per unit of use if they are used frequently than if they gather dust through desuetude.

This is to suggest that costs can be compared across resources only by looking at the frequency of use within each school, as well as at the total expenditures involved. An illustration of how this can be done for computer systems appears in Katz and Shatkin (1980). It is not possible to do this kind of calculation for each resource independently of its use on a school-by-school basis. In general, however, it seems clear that nothing is so costly, if this approach to accounting is accepted, as a resource that is unused. That represents wasted money.

The rate of counselor use, as well as direct student use, is important, since counselors themselves are identified as a significant source of information for students. Of all the formal apparatus of occupational information in the schools, it seems from the questionnaires that the <u>OOH</u> is the most widely used nationally for the greatest variety of purposes. Although it has weaknesses and gaps, as indicated above, it appears capable of meeting a wide variety of needs. If a school could not afford any additional resources, the one indispensable resource would be the OOH.

A final comment on costs is that all real costs should be considered, not just cash charges to the school. If, for example, state or federal funds contribute to the support of any resource, this subsidy should not be ignored in comparing costs of different resources.

7. Effects

Since effects of guidance resources are the subject of Study 2, and previous studies have been described in the Review of the Literature (Shatkin,



-83-

Weber, & Chapman, 1980) and by Katz & Shatkin (1980), this topic will be passed over here. One comment, however, may be made: It is extremely difficult to disentangle the effects of resources per se from the total school context in which their use is embedded. When school staff choose a given resource and are committed to its effective use, there is a good chance that it will be effective. That is, its effectiveness will usually depend as much on the enthusiasm and active participation of the staff as on its inherent qualities. Thus we have been much concerned, in visiting schools for Study 2, to get some information on the extent of staff commitment to use of occupational information. We suspect that "school effects" may outweigh the effects of specific resources.

8. Rationales for Intervention

Underlying the development of each resource must be some sense of how it is going to be used by students in making their career decisions. Occupational information is not meant to stand in isolation. Depending on how active or passive the resource is, it is an intervention or aid in a process. The theory underlying that process may be implicit or explicit. In any case, somehow the information is expected to the in with a comprehensive program of guidance. It is one component of a model of guidance for career decision making. Furthermore, as it exists in secondary schools, it is one component of education. Thus, the effects of guidance on career decision making may be likened to the effects of instruction on learning.

Guidance resembles instruction in that it aims to foster the acquisition of knowledge, the development of understanding, and the mastery of competencies. It differs, however, in that a substantial portion of the knowledge must be provided by the learner. In guidance, the learner is part of the content. Career decisions depend largely on the values, interests, and abilities of the decision-maker; so it is essential to bring the student's "latent knowledge" (as Socrates calls it) of these characteristics into explicit awareness and expression.

A further distinction lies in a comparison of the purposes of education and guidance (Katz, 1968): Education purports to deal primarily with the "universals" in the culture, while guidance is concerned with the "alternatives." This dichotomy is not just a distinction, it also suggests an interaction:

If the role of education is to transmit the culture, the role of guidance is to help the individual come to terms with the culture—that is, to see himself in the culture. But first he must see the culture in himself. Thus his first question should be, "Where have my values come from?" His second, Where are they taking me?' (Katz, 1963, p. 22)

Guidance, then, is one of the most highly individualized components of education. It has emerged from such phenomena as the division of labor in society and respect for individual differences. It recognizes that different people have different needs, values, circumstances, backgrounds, preferences,



-84-

abilities, interests, plans, developmental rates, and styles and that these differences affect the options that are available to them, the choices they make, and the processes by which they reach decisions.

Career guidance procedures typically (from Parsons, 1909, to the present) include attention to three major topics. Activities devoted to appraisal of the cl.ent loom large in most (but not all) guidance programs. Another major component is generally information about options. A third has to do with the evaluation of options, often involving paradigms or strategies for decision—making. To these may be added planning for appropriate action—ways of implementing decisions. Competencies in these four areas may be said to comprise the "curriculum" for career guidance (Katz, 1973).

A prior question that may help to differentiate mouels of guidance has to do with underlying philosophy and rationale: Out of what set of beliefs about human nature and the world of work have various systems evolved? On what basis do the interventions rest? What needs do they attempt to meet? What objectives are sought? These components of guidance for career decision-making-rationale, appraisal, information, planning, and strategy-warrant some amplification.

Rationale. It is generally recognized that society and the individual both have a stake in career decisions. Society wants its work done well. It craves excellence, as Gardner (1961) has said, in plumbers and philosophers lest neither pipes nor theories hold water. There are high economic and social costs for incompetence. Society also hopes for a nice balance between supply and demand in labor markets, one that will avoid both high costs and high unemployment. Society is also concerned with equity—equal opportunity for access and socioeconomic mobility. These objectives are frequently also in the interest of individuals. By the same token, matters of paramount importance to the individual—such as success and satisfaction in work—generally are benefits also to society. There is, nevertheless, often a certain tension between the societal stake and the individual stake in the rules that govern selection and choice at various transition points.

As in any transaction, there are overlapping interests but also some elements of competition or conflict between social and individual needs. Government, for example, tends to focus on manpower models. To the extent that government policy dictates a planned economy, individual freedom of choice tends to be restricted. The USSR represents an extreme example of such restriction according to manpower needs: for instance, access to educational institutions is severely limited, and "educational priorities are largely determined by the production goals of the state." (Kutkevich, 1969). In the United States, manpower policy has relied more on incentives than on restraints. In the 1950's, the National Defense Education Act, which provided for an unprecedented expansion of guidance services in education, was prompted largely by the federal government's perception of an urgent need to recruit able students for engineering and the sciences. More recent federal funding for guidance has emphasized reduction of unemployment (e.g., the Youth Employment and Demonstration Projects Act of 1977) and has called for special attention to "improve the match of youth career desires with available and anticipated labor



demand" (the Comprehensive Employment and Training Act Amendments of 1978). Thus the extensive guidance apparatus now in place has been supported as a means of inducing youth to adapt to societal needs and conditions and presumably thereby to ameliorate their own status. Government intervention was deemed necessary because the labor market was regarded as too slow or inefficient to accomplish these aims.

This manpower approach to meeting national priorities for certain occupations through guidance often appears to assume that a single optimization rule applies to both the societal and the individual stake. The major premise seems to be that requirements, qualifications, and rewards are distributed along parallel scales. The rule then is to select the best qualified people for the highest priority until the quota is met, then work down the list to fill the nex: highest priority, and so on. Rewards would presumably be set (either by government dictate or by market forces) in line with priorities. This parallelism between individual and societal benefits is readily achieved if the only rewards of concern are earnings and attained status, generally defined so as to be highly correlated, as by Jencks et al. (1979). In this case, occupational choice and membership is a zero-sum game (as indicated by the title of the Jencks et al. book, Who Gets Ahead?). "Winners" and "losers" are al assumed to be striving to place as "high" as possible; 'altitude" is the so a criterion.

Another view is that requirements, qualifications, and rewards are multidimensional. A selection rule to maximize societal benefits, then. might be analogous to minimizing the sum of squared differences between qualifications and requirements. But if rewards and satisfactions are also multidimensional, parallelism between societal and individual benefits may be absent. Variation in the importance attached to each dimension by different individuals means that they can "win" in different ways. They may then have stronger and more variable incentives than those associated with meeting manpower requirements. Thus manpower models are not optimal for individual benefits when (1) individuals are multipotential, (2) individuals vary considerably in their values, (3) occupational requirements are flexible, and (4) opportunities for rewards and satisfactions tend to vary considerably from one occupation to another. So the fact that more people persevere in wanting to farm or teach history than our present and projected labor markets appear able to accommodate may be attributed in part to lack of information or to skepticism about the validity of outlook information, but may also in part reflect the gap between societal and individual values. Notwithstanding the biological, economic, social, and psychological limitations on freedom, individuals still cherish their remnants of autonomy in making career decisions. They seek opportunities and options that provide satisfaction relevant primarily to their own values. Willingness to incur some level of risk is often part of this interaction between values, satisfactions, and probabilities of entry. An approach to guidance that aims to foster individual freedom starts by recognizing that

within whatever constraints are allowed by being a member of the human species, having inherited a given set of genes, being brought up in a certain culture, and being subjected to selected arrays of reinforcements, most young men and women seem to want to



become as independent as possible. They seem to want to use as much space as is left them for making their own decisions, for determining their own behavior--even those who decide to become behaviorists. (Katz, 1974, p. 44)

A proponent of this approach goes on to recognize that freedom without competence is frustrating. Freedom and ignorance are an ill-fated pair. Information about risks is an important component of the trade-offs that must be made between probable risks and valued rewards. Collecting and interpreting information and providing structures and strategies for its use are functions appropriate for professional intervention. But the outcomes of this process depend on individual values. To use professional competence to dictate the content of a person's decision is presumptuous. But

Without directing the content of an individual's choice, we do think we can help him in the process of choosing. This emphasis on process does not pretend to insure the "right" choice--except insofar as the right choice is defined as an informed and rational choice. Our bias--our conviction--is that in education enlightened processes are intrinsically important. Therefore, we bend our efforts to increase the student's understanding of the factors involved in choice (imperfect though our own understanding may be) so that he can take responsibility for his own decision-making, examine himself and explore his options in a systematic and comprehensive way, take purposeful action in testing hypotheses about himself in various situations and exercise flexibility in devising alternate plans.

In short, we don't want to play the decision-making game for him. We want to help him master the strategies for rational behavior in the face of uncertainty so that he can play the game effectively himself. (Katz, 1974, p. 68)

Manpower models of selection and guidance have the effect of erecting barriers and limiting access at relatively early stages in careers. dedicated to preventing failure, waste, and inefficiency in admission to training or preparation. Concepts of equity through compensatory education and selection are alien to this model but not to current social policy. So recent compensatory models (including special educational provisions and affirmative action") aim to wipe out barriers, especially those that in the past have been associated with discrimination against minorities, women, and he handicapped. The thrust of these programs has been not only against discriminatory practices in selection but also against another constraint on equal access--the lack of appropriate information. Thus the first component of equal access has been legislative and administrative programs to make more opportunities available. The second has been guidance to make people aware of opportunities and aware of their own capabilities, interests, and values as these characteristics relate to options. The first is directed against external barriers. Guidance is directed against internalized barriers.



This is an important distinction. Despite the emphasis in federal support of guidance to reduce unemployment, it is important to note that guidance does not create jobs. Guidance, along with compensatory and affirmative action programs, may affect the distribution of certain segments of the population in various occupations. Such programs could also reduce structural unemployment, particularly in a tight labor market, but are unlikely to have much effect on the magnitude of unemployment in loose labor markets. Thus the argument that any approach to guidance can reduce general unemployment is a weak one, contingent on relatively rare circumstances.

Appraisal. The questions of whether to appraise individual characteristics, which ones to appraise, and how to appraise them are answered variously in different approaches to guidance. Logically, these answers should be linked to rationale, and usually are. Even when appraisal is not incorporated as part of a guidance system, there is generally an assumption that it has already taken place or will take place somehow at some time. Among the individual attributes that are often considered important for guidance are aptitudes, abilities and accomplishments, interests, values, physical handicaps, financial resources, attitudes, and temperaments.

Each of these domains is represented in some guidance system, although it is difficult to say whether any system includes them all. Nomenclature is sometimes fuzzy—for example, temperaments, values, and interests may be operationally defined to overlap and mingle.

Space is not available to try to resolve these perseverant "jingle and "jangle phenomena here. It should be noted, however, that distinctions between sometimes-confused domains have been clearly comprehended and readily used in career decision-making by 8th- and 9th-grade students (Shimberg & Katz, 1962), have been spelled out operationally at the item and inventory level (Katz, 1969), and have been substantiated through factor analysis of test and inventory scores (Norris & Katz, 1970). The tenor of such distinctions may be suggested by the following excerpt:

If needs are regarded as basic motivating forces, values may refer to characteristic outer expressions and culturally influenced manifestations of needs. They are teleologically described, in terms of the satisfying goal or desired state that is sought rather than in terms of the motivating drive, on the one hand, or specific instrumental actions, on the other hand. More specifically, values represent feelings [and judgments] about outcomes or results, such as the importance, purpose, or worth of an [option]. Interests apply to the differentiated means by which the valued goal may be reached. They are concerned with satisfactions inherent primarily in the process rather than in the outcome of an activity. Thus, altruism and high income may be (often conflicting) occupational values. How one likes to help people or make money—by talking to groups, or repairing



machinery, or solving mathematical problems--expresses occupational interest.

Confusion occasionally appears...because the concept of interest—in the sense of engaging in an activity that is intrinsically enjoyable—may be more or less highly valued by various individuals.... In other words, the importance to an individual of doing work that is intrinsically interesting—as compared, say, with work that pays a high salary or work that helps others—is an indication of his values. The particular clusters of activities that he finds intrinsically appealing are an indication of his interests.

The dimensions of interests, then, should not be mingled--in conception or in measurement -- with the dimensions of values. Interest measures may be expected to identify and classify the activities that an individual finds intrinsically interesting. Such measures will not generally predict his global satisfaction in various options; they can predict only the satisfaction of his interests. When an individual has decided which clusters of activities are intrinsically interesting, he must still decide how much importance he wants to attach to satisfying intrinsic activity interest--compared, say, with such other occupational value dimensions as altruism, wealth, autonomy, and so on. For this comparison, a measure of his values is appropriate. Measures of values permit, ultimately, explicit prediction of the total satisfaction that he may derive from various options, provided that the instrumentality of each option in respect to each value can be rated. (Katz, 1969, p. 461)

Guidance models differ in the extent to which they make or recognize such distinctions between domains and also in the attention or emphasis they give to any domain.

In appraisal for guidance, confusion also prevails over the dimensions within each domain. There may be consensus on some factors used to represent a given domain, and considerable divergence on others. To illustrate from the domain of interests, sometimes so-called interest categories refer to occupational clusters ("engineering, physical sciences, mathematics, and architecture"), sometimes to types of activities ("persuasive"), sometimes to the objects of activities ("plants and animals"), sometimes to the purpose of activities ("protective"), sometimes to the setting of activities ("industrial"). Developers of some systems appear to be either totally baffled or quite unperturbed by this chaotic stat as sometimes they do not even try to choose between divergent or anomalous dime ions. When they do, the divergence on interest dimensions is as wide as the extant standardized inventories. Of course, even when there is conceptual agreement on a dimension (say, scientific interest), different measures may give somewhat different results.

In guidance generally, standardized measures of aptitudes and interests have long been used. A number of factor analytic studies have identified certain reference factors that are useful in defining common and unique constructs embodied in the various measures. Still, a cursory glance at batteries and instruments shows that, aside from traditional aptitude tests (e.g., verbal and quantitative), there is little tendency towards convergence among those currently published and in wide use. Thus interest inventories may have over 100 empirically derived occupational scales, or 6 or 10 or 12 or 24 analytically or logically derived scales. Even when two inventories produce equal numbers of scales, the names of the scales and the constructs they represent will vary. Thus different instruments define the domain of interests differently. Similar observations hold for appraisal in the domain of values, and in other domains.

In addition to standardized tests or inventories, clients' own ratings are often used—sometimes quite formally, as in questionnaires or workbooks, sometimes informally, as in interviews with a counselor. To make such ratings, clients—instead of responding to many items that comprise a scale, with responses aggregated into a score on each scale—make a single response to a definition or representation of the sense of the scale.

Finally, "expert" appraisals often come into play, as counselors, admissions officers, and others make their ratings of clients' characteristics.

<u>Information</u>. Previous sections on scope, content, structure, style, and procedures have described how information may be collected, organized, interpreted, analyzed, and prepared for use.

In general, although the domains of appraisal and information are not isomorphic, topics included and emphasized in the information component of most (but far from all) comprehensive guidance programs tend to reflect those in the appraisal component of the same programs.

Strategies. Many approaches to guidance do not include an explicit decision—making component. Implicit in them is often the notion that students can somehow put together appraisal and information, perhaps through unstructured contemplation of the options, or "gut feelings." Such approaches reflect a vague sense that there should be some kind of match between the students' characteristics and the attributes of the occupations or other options chosen.

Other approaches provide explicit algorithms for winnowing and evaluating options. These may include regression analysis, discriminant analysis, or other decision rules, all of which are described in the context of comparisons between models in Katz & Shatkin (1980).

In view of the nearly universal tendency for computerized guidance systems to provide a capability for structured search, it is important to emphasize here a distinction between strategies for structured search and for decision—making. In the former, a list of occupations that meet certain specifications



-90-

is generated. Such a list does not in itself provide a strategy for decision-making. It is no more than a set of options suggested for consideration. All specifications used have equal weight. In a similar way, all options in the data base are screened on a "go-no go" basis. A useful algorithm for decision-making, on the other hand, would permit the specifications to be weighted according to their importance, and the options would be rated on each attribute corresponding to the specifications. Then, the algorithm can produce an index of utility for each option by summing the products of its ratings and the student's weights denoting the importance of each specification. These indexes of utility take the student a giant stride further towards decision than do mere lists of occupations that "qualify" for further consideration. They can also serve to teach a process of decision-making which is capable of extended application.

Planning. Logically, planning of steps to enter an or upation would appear to follow the decision about which occupation one wants to enter. There is, however, some force to the argument that plans and decisions form a feedback loop. Sometimes a detailed appreciation of steps prerequisite or recommended for entry gives rise to second thoughts about one's resources for implementing a decision. Of course, requirements for entry are incorporated in most information systems. But these requirements are likely to be stated in general terms. They do not have the impact of step by step planning. one thing to see that a Bachelor's degree in engineering is required. detailed listing of programs and courses that would have to be taken to complete that degree may give the client pause. Also, as Freedman and Dutka (1980) point out, a mere listing of alternative pathways often fails to make clear which one is preferred or more likely to be productive. Furthermore, planning involves knowledge not only of the requirements for entry into an occupation, but also of available resources and assistance, such as special rutoring, financial aid, and the like.

Models of Guidance for Career Decision-Making

Designation of three of the topics just discussed owes a debt--like much else in the field of guidance--to the pioneering work of Frank Parsons at the dawn of the vocational guidance movement. In Choosing a Vocation (published posthumously in 1909) Parsons invoked a triad of activities that he believed should comprise vocational guidance: analysis of the individual, study of occupational information, and "true reasoning" to establish connections between the other two domains (Parsons, 1909). On the face of it, this does not seem far removed from many current trait-matching conceptualizations of the guidance process. But as pointed out in Katz and Shatkin (1980), Parson's application of these activities put major emphasis on information and advice from a knowledge-able and wise person--the counselor.

Katz and Shatkin (1980) go on to compare four distinct models that represent differences in rationale, appraisal, occupational information, strategy for

decision—making, prerequisites for effectiveness and criteria for evaluation. The chart summarizing those models reproduced as Table 39, is repeated here as a matter of convenience; it is not, however, a substitute for the accompanying text, which is incorporated here by reference. The four models are (A) Parsons, (B) Selection for Success, (C) Resemblance to Membership, and (D) Developing Understanding and Competence in career decision—making (CDM).

While theory in the field of guidance for career decision—making seems to have moved under the umbrella of D, with emphasis on developing individual freedom, understanding, competence, and satisfaction, bringing to bear techniques of information-processing and decision theory (cf. Pitz & Harren, 1980), it is the impression of the authors that most information resources today still tend to fall under B and C.

Summary

In this chapter, we have considered a number of ways in which occupational information resources vary, have made some analyses of their validities, and have ventured critical judgments about their quality. We have reported some aspects of quality from the perspective of school guidance and career education staffs, a few from the perspective of students, and many others from the perspective of logical analysis. In short, we have examined various facets of the major resources from various points of view. To summarize the results of this examination would be repetitive; to synthesize them may be impossible, perhaps instead we may comment on a few of the highlights for selected classification variables.

Scope, Content, and Perceived Usefulness

Since counselors indicate that they direct students to occupational information (Question 4, School Questionnaire, see Table 49, Chapter V) and indeed see such referrals as the most effective method of getting students to use occupational information (Question 2, see Table 82, Chapter X), one significant classification variable is their perception of the usefulness of various resources for various purposes and topics.

First, it is noteworthy that school respondents (mostly guidance counselors) tended to identify such a small number of resources for a wide variety of purposes and topics. In absolute terms, the OOH was by far the most frequently chosen resource. This is not surprising, since the OOH was most frequently present. But even in relative terms—that is, the proportion of respondents choosing a given resource when that resource was available in their school—the OOH tended to be very popular, usually second only to computer—based information systems. The latter were present in a relatively small proportion of the



-92-

schools, almost certainly a biased sample, and represent a certain degree of conspicuous commitment. Thus the frequency with which a computer-based system was chosen for various purposes and topics must be interpreted with due caution. We must also wonder how this choice by counselors squites with the indication that terminals were in use only a fraction of the time they were available. Nevertheless, the iegree to which computer-based systems were preferred by counselors is, on the face of it, quite impressive.

Caps, real and perceived. The failure of resources to be chosen with great frequency when they appeared to be appropriate is also noteworthy. For example, one would expect courses in career planning, occupational units in subject classes, and career days to show up very frequently for the purpose of arousing students' interests in exploring occupational information generally. Why didn't they? Perhaps more to the point, in which schools have they been successfully used for this purpose, and what differentiates such schools from the others? Similarly, why did publications from professional associations, books on single occupations, and audiovisual materials turn up so infrequently as sources of detailed information about an occupation with which students are already familiar? Audiovisual materials did appear with substantial frequency (although not greater than computer-based systems) as resources for poor readers, but an even greater number of respondents were at a loss to designate any resource for this purpose. Why did respondents tend to avoid mentioning career days, site tours, and other observational and experiential resources not dependent on reading? Why did they also neglect first-hand observation and experiential activities as resources for learning about the work environments in various occupations? Why were conferences with community representatives-although readily available--disregarded as a source of information on up-to-date local wage and salary information?

Other perceived gaps—besides materials for poor readers—were also notable and generally unexceptionable. substantial proportions of respondents named no resource for occupational information on such topics as security and job tenure, opportunities for helping others, accessibility of occupations to the handicapped, up—to—date local wage and salary data, and lists of titles meeting multiple specifications.

Most valuable resources. Respondents' designation of the <u>OOH</u> and computer-based systems as the most frequently preferred resources (of those available) for a variety of purposes and topics was confirmed by their over-all evaluation. Computer-based systems were also favored as a resource to be added if budgets permitted. (The <u>OOH</u> does not appear here because of a ceiling effect: it is already ubiquitous.)

There is ample evidence, then, that on this classification variable—respondents' perception of usefulness for a variety of purposes (scope) and topics (content)—the OOH and the computer-based systems are the exemplars, although they are also seen to leave serious gaps in scope and content.

Standard and Fluid

Further classification on content is provided by checklists. Tables 10 and 11 for specific publications, 12 and 13 for specific computer-based systems,



and 15 for three VIEW systems. Such lengthy checklists are too cumbersome to continue through an extensive classification system for all resources. seeking to reduce the array of resources suggests another classification variable: Those just mentioned can all be called standard resources, in the sense that each resource is essentially the same wherever it is used -- that is, the same information is circulated in standard form to all schools using the OOH, the DOT, GIS, CIS, or a state VIEW. Other resources -- such as occupational info mation units in classes, work experience, career days, job site tours, and conferences with community representatives, counselors, teachers, or parents-can be called fluid resources, in the sense that they may take different shapes and directions from one school to another. Audiovisual materials tend to be bought or rented in various combinations and are therefore collectively fluid, even though each specific item is standard. (Since the genus AV was named infrequently for any purpose or topic, except for use by poor readers, there was no need to consider any specific audiovisual item.) In so far as the fluid resources vary greatly from one school to another, little can be said here about their quality, although effects of representative versions of them will be considered in Study 2.

Classification of resources as standard or fluid is particularly useful at this point in our review of quality because it offers a way out of the further extension of tedious and cumbersome checklists begun in Tables 10-15. The way out is to reduce the number of resources considered on additional classification variables. Previous classification by availability and usefulness, followed by classification as standard or fluid, permits a sharp cut in the number of resources to be classified on the remaining variables. In short, sequential rather than concurrent classification has allowed the remainder of this review to focus mainly on the OOH, the DOT, GIS, and CIS--all standard resources that were regarded as most useful and valuable for a variety of purposes and topics.

Structure

Structure determines the nature of the linkages between individual characteristics and occupational attributes. Publications, like the OOH and the DOT, permit occupations and topics to be accessed in fixed linear order. For example, occupations are clustered according to a single characteristic or a fixed set of characteristics. Computer systems allow for more flexible access, occupations can be clustered according to any set of specifications chosen by the user (from whatever dimensions are incorporated in the system). In other words, a given occupation is not destined always to be associated with a certain array of other occupations: It can move from one cluster to another, depending on the specifications for search. A computer system also allows topics to be addressed in a more flexible sequence. The recent Department of Labor publication, Guide to Occupational Exploration (a supplement to the DOT), serves to illustrate the perils of fixed clusters accessed through a hierarchic structure. Since occupations may overlap in some attributes and differ in others, no single structure or classification system is satisfactory. A more rational structure with flexible access also makes allowance for the lack of isomorphism between the domains of individual differences and the domains of occupational attributes. The linkages between interests and activities, between abilities and requirements, between values and opportunities for rewards and satisfactions are useful but far from a perfect fit ("not like a



-94-

square peg in a square hole, but more like the fit of a person to a park bench"). Therefore simplistic linkages (such as are made by the <u>DOT</u>, GIS, and CIS) based on dichotomous categories such as "having" or "not having" a given attribute are often misleading, particularly since an "occupation" is itself a central tendency, a generalization in which some information is lost for the sake of a gain in summary power. Of the resources considered, the <u>GOE</u> is most explicit about its own structure. None of the resources, however, goes beyond attempting to make a particular match between individual and occupational characteristics at a given time: that is, none tries to help decision—makers understand principles of structure that they can apply on their own, "off line," as it were.

Style

In one feature of style, interactivity, computer-based systems are generally superior to publications. Neither GIS nor CIS, however, would rank at the top of a scale of interactivity. Both are somewhat cumbersome in requiring reference to off-line codes rather than conducting all communication on line. Structured search for occupations that meet students' specifications is the most interactive feature of each. In direct access the computer serves as a page turner. Use of a teletype terminal for GIS and CIS slows down communication to about a fourth of the common capabilities of a cathode-ray tube terminal. It encumbers the student with a considerable amount of dead time waiting for a message to be typed out. It also precludes use of graphics.

Although the <u>OOH</u> is quite readable and provides some pictures, none of the materials considered here can be classified as <u>vivid</u> or memorable. No trace of imagination or humor is to be seen.

The computer-based systems are slightly more <u>comprehensible</u> than the publications, according to students' responses, but the majority of students who used any of these resources said they did not find the information hard to understand.

Procedures

Procedures can be classified in terms of the extent to which they are explicit, logically consistent, supported by research, thorough, discriminating in choice of sources, and timely. The DOT merits good marks on most of these variables for procedures that underlie the definitions. For example, the Handbook for Analyzing Jobs spells out explicitly ways of observing and defining jobs, and the resultant definitions are both concise and consistent, although one can cavil at decisions about which titles to include. More serious criticisms are directed at the hierarchic scales representing levels of skill in dealing with Data, People, and Things. These scales are inconsistent, lacking parallelism, and could be improved by telescoping into three levels, by adding a higher skill to the Things category, and by developing a comprehensive thesaurus of verbs for work activities at each level in each category.

The supplement on interests (the <u>GOE</u>) and data display tape on aptitudes and temperaments warrant even more severe criticism. Both the interest and



temperament domains are ill-conceived and ill-defined. While the recent revision (GOE) corrects the absurdity of bipolar interest dimensions, logical and semantic confusion persists. Placing each occupation categorically in a single interest field rather than rating it on a continuous scale, and thereby allowing it to appear in more than one field, reveals an egregious oversimplification and misconception of the relationship between human interests and occupational activities.

No rationale is given for the construction of the temperaments domain. Some of the dimensions are badly confused—to the extent that language in the definition of one dimension overlaps the title of another. Both GIS and CIS mindlessly mingle, mangle, and merge temperaments from the DOT Data Display Tape, thereby making a bad situation worse.

The derivation of the <u>DOT</u> aptitude categories, unlike the temperament dimensions, is clear, derived essentially from the GATB dimensions. While fault can be found with USTES procedures for deriving OAP's--particularly the use of multiple cutting scores--they represent for the most part a reasonable compromise between scientific rigor and pragmatic expedience. (A more fundamental reservation would apply to the utility of the GATB measures for <u>guidance</u> as opposed to selection.) Unfortunately, the massive research base for GATB is largely abandoned or compromised in the <u>DOT</u> tape, which is used by both GIS and CIS. The consequence is that judgments of the kind and level of aptitude required to "qualify" for various occupations often run counter to the research data reported by USTES. CIS also defines the aptitude domain differently under direct access from the way it is defined under structured search. VIEW systems also construe "aptitude" chaotically. Procedures for defining and applying constructs of aptitude are, in short, lacking in rigor, clarity, consistency, and logic in all these resources.

Just as the DOT has been a major source for information on job definitions, physical demands, working conditions (all of which it handles well), aptitudes, temperaments, interests, and levels of skill in Data, People, Things (in all of which it is deficient), the OOH has been the major source of information about outlook. While projections of growth for specific occupations have been moderately accurate for large occupations, less so for small ones, the major component of demand is the replacement rate rather than growth. This being the case, it would seem appropriate to deemphasize projected growth rates in OOH write-ups (which are now somewhat misleading) in favor of focus on total number of openings expected in each occupation. Improved procedures are clearly needed for the supply side. But in general the 00H is a commendable source of state-of-the-art information about outlook, particularly in view of its apparent commitment to improved procedures. Of the classification variables mentioned at the beginning of this section, the most troublesome is timeliness. The biennial publication schedule plus the inevitable lag between data collection and publication makes for often tantalizing obsolescence, not only in outlook but also in such data as earnings and the addresses of "sources of additional information." Greater thoroughness in providing information about various facets of earnings is also needed. Insufficient use has been made by all of these resources of procedures established elsewhere for obtaining, analyzing,



-96-

developing, and providing information about nonpecuniary rewards and satisfactions associated with occupations. An additional approach to data collection has been suggested in the concluding section of the discussion of procedures.

Costs

Special attention is paid to cost as a function of use. Nothing is so costly as a resource that gathers dust through desuetude. It appears from the questionnaire responses that the <u>OOH</u> is the most widely used resource nationally for the greatest variety of purposes and topics. It is also probably the least expensive of all resources. If a school could not afford anything else, the one indispensable affordable resource would be the <u>OOH</u>.

Effects

Since effects of resources are the subject of Study 2, they are passed over in this paper. Effects can include several dimensions: attitudes, knowledge, competencies, behaviors. It is difficult to disentangle effects of resources per se from the total school context in which their use is embedded: "school" effects may be expected often to outweigh the effects of specific resources.

Rationales for Intervention

Information is one component of a model of guidance for career decision making, which in turn depends on an underlying rationale of guidance and philosophy of education, which derive in their turn from social and cultural ary to attend not only to the common benefits but also to norms. It is nec the tensions that occur between the societal stake and the individual stake in the rules that govern selection and choice at various transition points in career development. Social concerns include competence and productivity in work, a nice balance between supply and demand in labor markets, equity for access and mobility. Individual concerns focus on rewards and satisfactions from work. Manpower models may be more congenial to government policy, guidance models to individual decision making. Incentives in the former assume a single optimization rule for requirements, qualifications, and rewards; in order for society to "win," individuals become "winners" and "losers" in a zero-sum game. A guidance view when individual concerns are paramount is that requirements, qualifications, and rewards are multidimensional: then variation in the importance that different individuals attach to different values means that they can "win" in different ways. Thus manpower models are not optimal for individual benefits when (1) individuals are multipotential, (2) they vary considerably in their values, (3) occupational requirements are flexible, (4) opportunities for rewards and satisfactions tend to vary considerably from one occupation to another, and (5) individual autonomy in decision making is cherished. The fifth point requires that individuals be informed about rewards and risks, be willing to assume responsibility for making their own choices, and be able to develop the prerequisite competencies in decision making.



-97-

Very few resources are explicit about their underlying rationales. But the way in which a resource deals with such components of guidance as appraisal, information, strategies, and planning often tends to suggest an implicit model. Four such models are explicated, including advice from a wise person, selection for success, resemblance to membership, and development of understanding and competence in career decision making. Theorists have tended to move in recent decades toward the fourth of these, with emphasis on developing individual freedom, understanding, and competencies, and on attaining satisfaction from This model antedates but incorporates research on decision theory and information-processing. The computer-based resources reviewed here, however, while vague about decision-making strategies, tend in their approach to appraisal and information to follow implicitly the models called selection for success and resemblance to membership. Not explicitly, for they are atheoretical; not rigorously, for they shun research methods and data; not consistently, for they tend toward expedience and opportunism in their use of the DOT tape. The OOH, perhaps eclectic in the breadth of information it includes, leans toward a manpower model in its undue emphasis on projected growth rates for outlook.



Resources Recommended for Arousing Student Interest in Exploring Occupational Information

Table 16

| Resource | National estimate_ | Percent based or schools with resource |
|--|---|--|
| Al Occupational Outlook Handbook (4 Career days, speakers, etc. d2 Externally produced AV (56 State computer system) (11 State or regional microfilm) (55 GIS) (60 Occ. units in subject matter classes) (61 Courses in career planning) (61 Career World) (63 SRA briefs) | 12.10 6.29 5.70 5.22 4.60 4.39 3.74 3.61 3.12 2.78 | 13.5 9.1 7.5 43.7 10.6 38.3 6.2 9.3 6.8 6.4 |



Pahle 17

Resources Recommended for Familiarizing Students with Occupations

| | | National | Percent based or schools with |
|------------|--------------------------------------|----------|-------------------------------|
| | Resource | estimate | resource |
| Al | Occupational Outlook Handbook | 24.84 | 26.2 |
| A 2 | Dictionary of Occupational Titles | 8.49 | 10.5 |
| K4 | Career days, speakers, etc. | 4.78 | 7.2 |
| 11 | State or regional microfilm | 4.65 | 9.3 |
| K 2 | Occ. units in subject matter courses | 4.35 | 7.0 |
| B 4 | Chronicle guidance | 3.91 | 7.7 |
| H2 | Externally produced AV | 3.89 | 5.3 |
| Á4 | Encycl. of careers and voc. guidance | 3.89 | 8.0 |
| K1 | Courses in career planning | 3.37 | 8.7 |
| B 5 | SRA briefs | 2.97 | 7.1 |

Resources Recommended for Detailed Information About a Familiar Occupation

Table 18

| | Resource | National estimate | Percent based or schools with resource |
|------------|--|----------------------|--|
| Al | Occupational Outlook Handbook | 16.79 | 18.8 |
| B4 | Chronicle guidance | 8.51 | 16.3 |
| 11 | State or regional microfilm | 5.91 | 12.9 |
| A 2 | Dictionary of Occupational Titles | 4.97 | 6.1 |
| G6 | State computer system | 4.33 | 35.7 |
| A 4 | Encycl. of careers and vocational guidance | 3.38 | 6.9 |
| G5 | GIS | 3.30 | 30.8 |
| K4 | Career days, speakers, etc. | 2.93 | 3.7 |
| B 5 | SRA briefs | 2.90 | 6.5 |
| Bll | Pamphlets of prof. associations | 2.59 | 2.9 |





Table 19

Resources Recommended for Suggesting Unfamiliar Occupations

| | Resource | National estimate | Percent based on schools with resource |
|------------|--------------------------------------|----------------------|--|
| Al | Occupational Outlook Handbook | 17.69 | 19.1 |
| Α2 | Dictionary of Occupational Titles | 6.37 | 7.8 |
| B 4 | Chronicle guidance | 3.75 | 7.9 |
| G 5 | GIS | 3.71 | 30.4 |
| G6 | State computer system | 3.71 | 30.5 |
| Ιl | State or regional microfilm | 3.67 | 8.1 |
| A4 | Encycl. of careers and voc. guidance | 3.66 | 7.0 |
| Ml | Conferences with counselors | 3.58 | 4.1 |
| B 5 | SRA briefs | 2.78 | 6.0 |
| В2 | Careers, inc. | 2.58 | 6.8 |



fable 20

Resources Recommended for Poor Readers

| | | National | Percent based or schools with |
|-----|-------------------------------|----------|-------------------------------|
| | Resource | estimate | resource |
| H 2 | Externally produced AV | 15.18 | 21.8 |
| [] | State or regional microfilm | 4.46 | 10.0 |
| 41 | Conferences with counselors | 4.40 | 4.4 |
| (4 | Career days | 4.16 | 5.7 |
| 1 | Occupational Outlook Handbook | 3.80 | 3.9 |
| 1 | Career World | 3.20 | 7.1 |
| 6 | State computer system | 2.97 | 23.9 |
| 35 | SRA briefs | 2.79 | 7.6 |
| 12 | Careers, inc. | 2.77 | 8.1 |
| 35 | GIS | 2.36 | 20.9 |



Table 21

Resources Recommended for Selection of Suitable Programs by College-Bound Students

| | Resource | National estimate | Percent based on schools with resource |
|-----|-----------------------------------|----------------------|--|
| Fl | College directories by occupation | 40.83 | 58.1 |
| Ml | Conferences with counselors | 6.15 | 6.5 |
| G5 | GIS | 5.63 | 51.8 |
| F2 | Vocational school directories | 4.09 | 5.7 |
| G6 | State computer system | 3.34 | 30.0 |
| F4 | Other educational directories | 3.22 | 28.9 |
| Al | Occupational Outlook Handbook | 3.10 | 2.9 |
| Il | State or regional microfilm | 2.01 | 5.0 |
| K 4 | Career days, speakers, etc. | 1.78 | 2.0 |
| B4 | Chronicle guidance | 1.48 | 2.7 |



Table 22
Fesources Recommended for Helping Noncollege-Bound
Students Select Programs

| | | National | Percent based or schools with |
|----|--------------------------------------|----------|-------------------------------|
| | Resource | estimate | resource |
| F2 | Vocational school directories | 37.41 | 49.7 |
| Ml | Conferences with counselors | 6.82 | 7.2 |
| 36 | State computer system | 3.62 | 31.5 |
| 1 | Occupational Outlook Handbook | 3.59 | 4.2 |
| ;5 | GIS | 3.26 | 31.6 |
| 74 | Other educational directories | 2.95 | 26.8 |
| 1 | State or regional microfilm | 2.60 | 6.5 |
| (4 | Career days | 1.50 | 2.1 |
| 14 | Encycl. of careers and voc. guidance | 1.47 | 2.7 |
| 34 | Chronicle guidance | 1.21 | 1.8 |



Table 23

Resources Recommended for Information About Entry Requirements

| | Resource | National estimate | Percent based or schools with resource |
|----------|--|----------------------|--|
| Al | Occupational Outlook Handbook | 39.03 | 42.6 |
| A2 | Dictionary of Occupational Titles | 6.73 | 8.4 |
| Il | State or regional microfilm | 5.89 | 13.8 |
| B4 | Chronicle guidance | 4.63 | 9.4 |
| G6 | State computer system | 4.45 | 35.7 |
| - | Encycl. of careers and voc. guidance | 3.10 | 6.7 |
| A4 G5 | GIS | 2.98 | 27.7 |
| | SRA briefs | 2.53 | 5.6 |
| B5 | | 1.72 | 3.4 |
| B2 | Occupational briefs published by state Careers, inc. | 1.35 | 4.4 |





Table 24 Resources Recommended for Information About Employment Outlook

| 55.25 | 59.7 |
|-------|--|
| | |
| 5.59 | 11.0 |
| 3.88 | 31.9 |
| 2.96 | 7.4 |
| 2.66 | 24.1 |
| 2.52 | 5.9 |
| 1.41 | 14.4 |
| 1.29 | 2.2 |
| | 1.5 |
| 1.11 | 9.0 |
| | 2.96 2.66 2.52 1.41 1.29 1.20 |



Table 25

Resources Recommended for
Information About Aptitudes, Abilities, and Skills

| | Resource | National estimate | Percent based o schools with resource |
|-------------|--------------------------------------|----------------------|---|
| Al | Occupational Outlook Handbook | 24.06 | 26.6 |
| A2 | Dictionary of Occupational Titles | 10.55 | 12.7 |
| B 4 | Chronicle Guidance | 7.14 | 14.3 |
| 11 | State or regional microfilm | 6.92 | 15.6 |
| G6 | State computer system | 4.47 | 36.2 |
| B 5 | SRA briefs | 3.54 | 7.6 |
| G5 | GIS | 3.25 | 30.0 |
| A4 | Encycl. of careers and voc. guidance | 3.13 | 8.0 |
| B 2 | Careers, inc. | 1.95 | 6.3 |
| B 10 | Occ. briefs published by state | 1.83 | 3.5 |

Table 26

Resources Recommended for
Information About Work Activities

| | Resource | National estimate | Percent based or schools with resource |
|------------|--|----------------------|--|
| | KEBOULCE | | |
| A1 | Occupational Outlook Handbook | 27.94 | 30.6 |
| | Dictionary of Occupational Titles | 10.94 | 13.1 |
| A2 | | 8.07 | 16.4 |
| B 4 | Chronicle guidance | 5.24 | 12.0 |
| 11 | State or regional microfilm | 4.16 | 34.7 |
| G6 | State computer system | | 8.6 |
| B 5 | SRA briefs | 3.94 | = |
| A4 | Encycl. of careers and vocational guidance | 3.84 | 8.2 |
| | - | 3.28 | 27.7 |
| G5 | GIS | 2.08 | 6.3 |
| B2 B9 | Careers, inc. Vocational biographies | 1.76 | 7.8 |



Table 27

Resources Recommended for
Information About the Work Environment

| | Resource | National estimate | Percent based or schools with resource |
|------------|-----------------------------------|----------------------|--|
| Al | Occupational Outlook Handbook | 29.28 | 31 . 7 |
| B 4 | Chronicle guidance | 8.02 | 15.3 |
| II | State or regional microfilm | 4.69 | 10.6 |
| | Dictionary of Occupational Titles | 4.60 | 5.9 |
| A2 | State computer system | 3.70 | 30.5 |
| G6 | Encycl. of careers and voc. guid. | 3.32 | 7.3 |
| A4 | • | 3.26 | 7.1 |
| B 5 | SRA briefs | 2.75 | 24.1 |
| G5 | GIS | 2.55 | 3.3 |
| H2 | Externally produced AV | | 5.8 |
| B2 | Careers, inc. | 1.83 | 3.0 |



Table 28

Resources Recommended for Information About Job Security

| | Resource | National estimate | Percent based or schools with resource |
|------------|--|----------------------|--|
| A1 | Occupational Outlook Handbook | 29.94 | 32.9 |
| B 4 | Chronicle guidance | 4.79 | 9.0 |
| 11 | State or regional microfilm | 3.68 | 8.5 |
| Ā4 | Encycl, of careers and voc. guid. | 2.56 | 5.0 |
| A2 | Dictionary of Occupational Titles | 2,30 | 2.6 |
| G6 | State computer system | 2,28 | 20.2 |
| B5 | SRA briefs | 2.19 | 4.3 |
| C3 | Occupational Outlook Quarterly | 2.12 | 4.4 |
| | Occupational briefs published by state | 2.08 | 4.3 |
| K9 | Conferences with community representatives | 1.74 | 4.1 |



Table 29

Resources Recommended for Information About Opportunities for Helping Others

| | Resource | National estimate | Percent based or schools with resource |
|----|--|----------------------|--|
| Al | Occupational Outlook Handbook | 15.89 | 16.4 |
| B4 | Chronicle guidance | 3.69 | 7.1 |
| G5 | GIS | 3.38 | 28.5 |
| A2 | Dictionary of Occupational Titles | 2.85 | 3.4 |
| Il | State or regional microfilm | 2.54 | 6.1 |
| A4 | Encycl. of careers and voc. guid. | 2.46 | 5. 5 |
| B5 | SRA briefs | 2.30 | 4.8 |
| G6 | State computer system | 2.14 | 18.3 |
| M1 | Conferences with counselors | 1.51 | 1.7 |
| | Occupational briefs published by state | 1.40 | 3.0 |





Table 30

Resources Recommended for Information About Accessibility to the Handicapped

| _ | Resource | National estimate | Percent based o schools with resource | |
|------------|--|----------------------|---|--|
| A6 | Employment opportunities for handicapped | 11.07 | 112.7 | |
| Al | Occupational Outlook Handbook | 6.23 | 5.7 | |
| K9 | Conferences with community representatives | 1.57 | 4.1 | |
| K10 | Other school-arranged experience | 1.54 | 13.8 | |
| 11 | State or regional microfilm | 1.51 | 3.8 | |
| G5 | GIS | 1.42 | 12.6 | |
| G 6 | State computer system | 1.40 | 12.7 | |
| M1 | Conferences with counselors | 1.38 | 1.6 | |
| B 4 | Chronicle guidance | 1.30 | 2.5 | |
| B10 | Occupational briefs published by state | 1.04 | 2.6 | |



195

Table 31

Resources Recommended for
Information About Up-to-Date Local Wages and Salaries

| Resource | National estimate | Percent based or schools with resource |
|---|----------------------|--|
| | | 10.7 |
| Al Occupational Outlook Handbook | 10.72 | 10.7 |
| Il State or regional microfilm | 9.57 | 24.8 |
| B10 Occupational briefs published by state | 6.61 | 17.2 |
| BIO Occupational bilets published by state | 6.03 | 52.1 |
| G6 State computer system | 4.39 | 8.1 |
| C3 Occupational Outlook Quarterly | 3,55 | 8.9 |
| K9 Conferences with community representatives | 3.25 | 22.5 |
| G5 GIS | 2.65 | |
| C6 Other periodicals | 2.63 | 34.0 |
| (U Ottiet periodicale | 1.97 | 2.3 |
| K4 Career days, speakers, etc. | 1.87 | 17.6 |
| C2 Occupations in demand | 1.07 | |



Table 32

Resources Recommended for
Information About Occupations That Meet Students' Specifications

| Resource | National estimate | Percent based or schools with resource |
|---|----------------------|--|
| | COLIMACC | 1000100 |
| Al Occupational Outlook Handbook | 17.18 | 18.9 |
| G5 GIS | 5.60 | 49.0 |
| G6 State computer system | 5.56 | 46. 0 |
| Il State or regional microfilm | 4.65 | 11.2 |
| B4 Chronicle guidance | 3.00 | 5.7 |
| A2 Dictionary of Occupational Titles | 2.38 | 2.8 |
| Jl Keysort or needlesort | 2.37 | 12.3 |
| BlO Occupational briefs published by state | 2.15 | 4.7 |
| A4 Encycl. of careers and vocational guidance | 1.62 | 3.0 |
| B5 SRA Briefs | 1.54 | 3.8 |





Table 33
Resource Deemed Most Valuable

| | Resource | National estimate | Percent based or schools with resource |
|-----|--|----------------------|--|
| | | | |
| A1 | Occupational Outlook Handbook | 33.30 | 35.9 |
| Ιl | State or regional microfilm | 6.79 | 15.4 |
| G6 | State computer system | 5.92 | 49.8 |
| B4 | Chronicle guidance | 5.61 | 12.0 |
| G5 | GIS | 5.23 | 48.6 |
| Ml | Conferences with counselors | 4.96 | 5.3 |
| A 2 | Dictionary of Occupational Titles | 3.60 | 4.0 |
| A4 | Encyl. of careers and vocational guidance | 2.51 | 5.3 |
| Fl | College directories arranged by occupation | 2.45 | 3.6 |
| B5 | SRA briefs | 2.32 | 4.3 |



Table 34

Resources Most Desired If Funds Were Available-Percent of Stratum and Percent of Schools
Lacking the Resource

| stra | tum 1 (N = | 540) | Strat | um 2 (N = | 668) | Stratum 3 (N = 686) | | | |
|----------|-------------------------------|--------------------------------------|----------|-------------------------------|--------------------------------------|---------------------|-------------------------------|-------------------------------|--|
| Resource | % Schls. in the stratum | % Schools without the resource | Resource | % Schls. in the stratum | % Schools without the resource | Resource | % Schls. in the stratum | % Schls. without the resource | |
| G3 : | 9.81 | 10.15 | A 2 | 2.40 | 11.03 | G5 | 12.39 | 15.51 | |
| кі | 4.63 | 7.72 | A4 | 4.19 | 6.90 | Н2 | 2.19 | 9.09 | |
| B5 | 3.52 | 6.64 | G5 | 6.29 | 6.71 | Il | 4.66 | 7.71 | |
| G5 | 4.81 | 5.57 | G 3 | 6.29 | 6.35 | G3 | 7.43 | 7.68 | |
| 11 | 3.52 | 5.51 | G6 | 5.54 | 6.21 | K1 | 4.08 | 7.29 | |
| A4 | 2.41 | 4.85 | G2 | 5.99 | 6.00 | G2 | 4.96 | 5.07 | |
| G2 | 4.63 | 4.78 | C1 | 3.14 | 5.10 | . G6 | 4.23 | 4.97 | |
| C 2 | 3.70 | 4.09 | Il | 2.99 | 5.06 | B5 | 2.33 | 4.31 | |
| A6 | 3.52 | 4.08 | K1 | 2.84 | 4.60 | A6 | 3.50 | 4.07 | |
| В2 | 2.41 | 3.67 | А3 | 2.40 | 2.67 | L1 | 2.48 | 3.08 | |

Resources

- A2 Dict. Occ. Titles
- A3 Guide for Occ. Exploration
- A4 Encyc. Careers & Voc. Guid.
- A6 Empl. Oppy's. for Handicapped
- B2 Careers, Inc.
- B5 SRA Briefs
- Cl Career World
- C2 Occup. in Demand

- G2 COIN
- G3 CVIS
- G5 GIS
- G6 State comp. system
- H2 Extern. produced AV
- Il State or regional microfilm
- Kl Courses in career planning
- Ll Simulations



Table 35

Satisfaction in Amount of Information Retrieved from Publications, Computers, Microfiche, and Card Sorts

| Amount Retrieved | Publications (N = 3474) | Computers (N = 596) | Microfiche (N = 556) | Card sorts $(N = 625)$ |
|----------------------|----------------------------|---------------------|-------------------------|------------------------|
| All that was desired | 13 ^a | 23 | 15 | ! 2 |
| Most | 50 | 53 | 52 | 49 |
| Some | 35 | 23 | 32 | 37 |
| None | 2 | 1 | 2 | 2 |

aPercent of those responding



-118-

Table 36

Comprehensibility of Information Received from Publications, Computers, Microfiche, and Card Sorts

| Response to the question, "Was information hard to understand?" | Publications (N = 3348) | Computer (N = 568) | Microfiche (N = 520) | Card sorts (N = 585) |
|---|-------------------------|-----------------------|-------------------------|-------------------------|
| Yes | 2ª | 4 | 4 | 4 |
| Sometimes | 32 | 26 | 23 | 30 |
| No | 66 | 71 | 73 | 66 |



^aPercent of those responding

Table 37

Satisfaction in Amount of Information Retrieved from Publications, Computers, Microfichs, and Card Sorts

| | | | | | | Resov | rce | | | | | ···· |
|----------------------|--------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | | Publications | | | Computers Mi | | | Microfiche | | , s | Sortine Cards | |
| Amount Retrieved | 5tratum [(N = 1158)* | Stratum 2 (N = 1159) | Stratum 3 (N = 1226) | Stratum 1 (N = 182) | Stratum 2 (N = 144) | Stratum 3 (N = 280) | Stratum 1 (N = 173) | Stratum 2 (N = 152) | Stratum 3 (N = 241) | Stratum 1 (N = 211) | Stratum 2 (N = 209) | Stratum 3 (N - 213) |
| All that was desired | 13 b | 13 | 12 | 19 | 24 | 24 | 14 | 14 | 15 | 13 | 11 | 12 |
| Most | 49 | 50 | 49 | 55 | 49 | 51 | 46 | 57 | 52 | 47 | 49 | 48 |
| Some | 34 | 35 | 35 | 21 | 24 | 23 | 34 | 28 | 31 | 37 | 39 | 35 |
| None | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 5 |

*Includes a small number of "No responses"

b Perces

130





Table 38

Comprehensibility of Information Received from Publications, Computers, Microfiche, and Card Sorts

| | | | | | | Reso | urce | | | | | |
|----------------------|-------------------------|--------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Was in- | | Publications | | | Computers | | | Microfiche | | Sorting Cards | | |
| formation difficult? | Stratum 1 (N = 1109) | Stratum 2 | Stratum 3 (N = 1180) | Stratum 1 (N = 175) | Stratum 2 (N = 139) | Stratum 3 (N = 275) | Stratum 1 (N = 162) | Stratum 2 (N = 149) | Stratum 3 (N = 236) | Stratum 1 (N = 205) | Stratum 2 (N = 207) | Stratum 3 (N = 201) |
| Yes | 46 | 2 | 2 | 4 | 3 | 4 | 4 | 4 | 3 | 5 | 2 | 4 |
| Sometimes | 30 | 32 | 31 | 28 | 29 | 20 | 22 | 19 | 23 | 26 | 30 | 29 |
| 18c | 66 | 63 | 65 | 64 | 64 | 73 | 69 | 71 | 69 | 64 | 65 | 60 |

AIncludes a small number of "No reaponses"



b Percent

TABLE 39
FOUR APPROACHES TO CAREER GUIDANCE

| | | A. Paraona | B. Selection for Success | C. Resemblance to Membership | D. Understanding&Competence in CDM |
|-------|--|--|--|---|--|
| 1. | Purpose or objectives (implicit or explicit) | Choose occupation to maximize succeas and therefore satis-faction of individual and benefit to society. | Prevent waste & inefficiency in preparation by basing choice on differential prediction of succeas Improve over-all productivity. | Prevent waate & inefficiency, maximize satisfaction, by basing choice on resemblance to membership in occupation. Increase homogeneity of membership | Learn career deciaion-making process to achieve individual astisfaction; make plans that take into account preparatory requirements and probabilities of entry. |
| 2 | Appraisal of indi- vidual | Counselor's observation and judgment during intarview. | Standardized test battery, emphasizing differential aptitudesoff-line. (e.g., Air Force selection, GATB.) | Standardized tests and/or inventories, often emphasizing interestsoff-line. (e.g., Strong, Holland, TALENT.) | Individual's informed aelf- appraisal of values, interests, abilitiesinteractive. |
| 3. | Occupational informa- tion | Counselor's knowledge, experience, impressions. | Job analysis to classify occupations by aptitudes and to specify requirements or criteria for success in each occupation. (e.g., Air Force, Shartle, Minn Employment Stabilization) | Differentiated characteristics (antecedent or concurrent) of members of each occupationuaually involving scores on same instrument as in (2), above (e.g., Strong, TALENT) | Systematic multi-dimensional analysis of opportunities for satisfactioni.e., "instrumentality" of each occupation on each dimension. |
| 4 | Articulation between (2) and (3) sbove for "choice" or de- cision-making | Counselor's judgmenti e . "true reasoning" by coun- selor | Counselor's judgment linking aptitude scores to occupapations, or regression analysis—equation using predictor variables, from (2) above, selected and weighted optimally to predict auccess as specified by criterion, from (3) above. | Counselor's judgment linking interest scores to occupations, or discriminant snalysisshowing degree of individual's resemblance to memberahip of various occupations differentiated by the characteristics measured | Algorithm for combining indi- vidual's weighting of each value with rating of occupa- pation's inatrumentality produces index of "desirabi- lity"; decision rules for ad- judicating between dasirabi- lity and risks. |
| 5 | Effectiveness depends on data showing | counselor's omniscience and wisdom | differential validities (which depend, in parr, on relatively low correlations between criteria—i e , differentiated requirements for success in various occupations—and relatively low correlations between predictor composites for various occupations) | differentiated distance of in- dividual from various occupa- tional memberships such that probability of resemblance vs dissimilarity can be dis- cerned at useful level of confidence | differentisted opportunities for satisfaction in various occupations consistent with differentisted profiles of examined values |
| · · / | Evaluated by (a) short-term (b) long-term | (a) clients' acceptance of counselor's judgment, (b) later success and satisfaction in occupations chosen. | (a) clients' choices of occupations offering highest probabilities of success, (b) later success in occupations on criteria specified in (3) above | (a) "hit" ratio clients' choices of occupations whose members they most closely "resemble", (b) persistence in occupations so chosen. | (a) à (b) clients' competencies in cdme g , understanding of own values, comprehenaive specifications sought from occupations, knowledge of relevant occupational information, accurat interpretations of comparative probabilities of success in various preparatory programs. Choices of occupations conaintent with desirabilities and risks. |

EXHIBIT II-5

RATING CATEGORIES AND THESAURUS FOR DATA/PEOPLE/THINGS

Data/Ideas*

O Synthesizing (to develop knowledge)

1 Coordinating

2 Analyzing

HIGH

Adapt

Apply principles Arbitrate Calculate Classify

Decide Design Develop ideas Diagnose Discuss ideas Do research

Estimate

Evaluate Explain

Forecast trends Integrate

Interpret Investigate Make policy Organize Originate

Plan

Predict Solve problems

"drawing conclusions"

Survey

Edit (revise) Study Translate

Translate ideas into artistic

performance

Translate ideas into practical

application

Write reports, directions or

specifications

3 Compiling

4 Computing

MEDIUM

"performing prescribed actions"

Apply information Assist -- carry out instructions

Collect facts, information,

data (survey) Fill out reports Follow diagrams Randle applications Enforce standards

Memorize

Supply information

Transcribe

Use maintenance manual

5 Copying

6 Comparing (checking)

LOW

"observing or copying"

File reports

Keep files

Keep log

Record observations/transactions

Review

Verify

Not related to work activities

*Numbered words are taken from the Dictionary of Occupational Titles, 1977. Appendix p. 1369-1371.

Illustration of how a thesaurus of verbs might be developed for categorizing work activities at three levels: high, medium, and low. (From Pears and Weber, 1980, pp. 81-83.)



-123-

EXHIBIT II-5 (cont.)

People*

HIGH 0 Mentoring (counseling) "changing behavior, giving advice 1 Negotiating or instructions" 2 Instructing 3 Supervising (maintaining harmony) 4 Diverting 5 Persuading Instruct (teach) Advise Consult Counsel Arrive at joint decisions (confer) Modify behavior Guide Order Cure Prescribe for Direct Rate Employ Rehabilitate Entertain Evaluate Remedy Resolve disputes Influence Be responsbile for 6 Speaking-Signaling MEDIUM "cooperating, exhanging information" (giving instructions to helpers) Participate in team effort Answer inquiries Protect Assist Confer (discuss) Refer Represent employer Correspond with Rescue Examine people or animals Treat (minor cases) Inform Interview (using prepared questions) Notify Observe LOW 7 Serving (attending to immediate needs) "following other people's orders" 8 Taking instructions-Helping Serve the buying public Visit Greet Guard Little direct interaction with people as part of work activity.

^{*} Numbered words are taken from the <u>Dictionary of Occupational Titles</u>, 1977. Appendix p. 1369-1371.



Things*

O Setting-up

l Precision working

HIGH

"using considerable judgment & knowledge combined with a high level of manipulative

dexterity"

Build

Calibrate Construct

Create Design (SIGI addition)

Draft (detailed sketches)

Make Trouble shoot

Pabricate

Use precision tools & equipment

Identify complex objects Invent (SIGI addition)

Experiment

2 Operating-controlling

3 Driving-operating

4 Manipulating

MEDIUM

"some latitude for judgment and

moderate dexterity"

Adjust

Arrange

Combine

Cultivate

Drive Examine equipment

Inspect

Modify

Overhaul

Purchase equipment

Regulate

Repair

Test equipment

Install (routine) Use simple tools or equipment

5 Tending

6 Feeding-offbearing

7 Handling (moving or carrying objects)

LOW

"little judgment or manipulative dexterity needed (push buttons or keys; monitor lights or dials; do minor repairs. Use pencil, paper, telephone, common devices.)"

Carry Monitor

Pass to someone else

Make monor repairs

Not related to work activity.



^{*}Numbered words are taken from the Dictionary of Occupational Titles, 1977. Appendix p. 1369-1371.

CHAPTER IV

RESEARCH QUESTION A3

Research Question a3 is "What types of schools have what types and quality of career information resources?" The matter of the quality of the resources has already been discussed in Question a2. No new findings about quality emerge from the analysis of school type versus career resource type. Therefore in the following analysis the matter of quality has been dropped from the question.

Analysis Strategy

A convenient way to characterize the demographic aspects of schools is to examine their responses to six questions on the school questionnaire. Examination of the marginal distributions on each of the six questions revealed reasonable places to cut each variable, thus yielding six binary categories of school characteristics as follows:

- 1) Enrollment in 10+11+12 grades $\geq 750 = 1$ Otherwise = 0
- 2) Majority of students in an academic program = 1Otherwise = 0
- 3) Majority of students are white = 1
 Otherwise = 0
- 4) Dropout rate $\leq 14\% = 1$ Otherwise = 0
- 5) Counselors \geq 4 full-time equivalent = 1 Otherwise = 0
- 6) Head of guidance = 1
 Otherwise = 0

Delivery systems can also be characterized through responses to six binary questions as discussed later, thus providing the framework for studying school type versus resource type.

Thus there are 64 (26) possible categories of school type, allowing an answer to the first half of the research question, "What types of schools are there?" There are also 64 categories of delivery system types. Thus the answer to the research question involves looking at a 64-by-64 cell contingency table. Such a table has 4096 cells, and it is clear that unless there is a very strong structure (i.e., many schools group together in a very few of those cells) there is little to discover. There are also three sampling strata that characterize school types further still, yielding a possible 64-by-64-by-3 contingency table with more than 12 thousand cells.



School Types

Obviously such a table is too complex to work with. The first place to look for simplicity is the structure of schools. Examining all 64 possible cells (grouped across strata for a first look) reveals that very few school "types" account for the vast preponderance of schools. The most populous cell contains 258 schools; that is, there are in the sample 258 schools all of the same type as determined by the criteria described above. Another cell contains 201 schools, another 183, another 161, another 109, and so on. Three cells are empty and six contain only one school. It is clear that many schools are embraced by a few types, telling us that there is a simple structure and that very few school "types" contain a very large number of schools. The twenty most popular types are shown in Table 40 and they account for more than 80 percent of the schools (in fact only ten types account for 64 percent of the schools). A graph of these results is shown in Figure 2.

Figure 2 indicates the same thing that we saw in Table 40, that is that relatively few school "types" account for a large proportion of the schools. The question remains, "Is the popularity of school types the same in each of the three sampling strata?" The answer is no. This observation can be examined through the construction of the same six-dimensional distribution that was used in the aggregated sample (Table 40 and Figure 2). Listing the most popular school types for each stratum separately shows that, although very few school types account for most schools within each stratum, there is no universal appeal of any type. This result is expected, since the strata reflect an attempt to sample different demographic groups differentially, and the finding of different "types" merely confirms empirically what was in the design. The most popular types are shown in Table 41.

It is helpful to scan through the groupings in Table 41 to try to pick out the demographic features that characterize each stratum. When we identify the demographic variables that predominate by their presence (1) or absence (0), we make the following observations:

Stratum 1 is characterized by larger enrollments and by the presence of four or more full-time equivalent counselors.

Stratum 2 is characterized by a predominance of white students and by a lower dropout rate, and by smaller enrollment and fewer than four full-time equivalent counselors.

Stratum 3 is characterized by a predominance of white students and by a lower dropout rate.

The strata vary over most of the variables not singled out above.

Given the way the strata were defined, none of these differences is exactly surprising.



-128-

Another way of comparing the distribution of school types is through a "P-P Plot" (see Wainer and Thissen, 1981). In this graph we order the 64 categories for each stratum according to their frequency in the entire sample, and then calculate the cumulative proportion (as in the last column of Table 40). It is clear that any such cumulative proportion must start at zero and end at one, but how it gets between these two extremes is the distribution of the variable of interest. To compare two distributions we merely plot these cumulative p's, one against the other. If two variables have the same distribution, they will fall on a 450 line. The extent to which the actual distribution deviates from that diagonal is the extent to which the two strata are not distributed the same way. Shown in Figures 3 through 5 are three such P-P plots comparing each stratum with the other two. The message these plots tell us is that Strata 2 and 3 are somewhat similar to one another and are quite different from Stratum 1.

Delivery System Types

The foregoing analysis has shown what could be discovered (using these variables) about the demographic characteristics of the more than eighteen hundred schools in the sample. The next stage is to examine (using much the same strategy) the structure of delivery system types. Again the questionnaire variables may be divided into 6 binary variables that describe whether or not a certain level has been reached for each of six kinds of delivery systems. These are shown in Table 42.

Once again the frequencies of occurrence for all possible combinations of these variables may be calculated, as in Table 43. The table shows much greater homogeneity among these variables than was found among school demographic types. First, one notes that nine combinations of delivery systems account for more than half (54 percent) of all schools sampled. Looking within stratum, one can examine the most commonly reported combinations of delivery systems. These are delineated in Table 43, which shows that in Stratum 1 there is considerable emphasis on AV and school-based systems and an absence of keysorts or needlesorts (which attempt to allow a structured search, without use of a computer, of occupations that match criteria imposed by the searcher). Stratum 2 is like Stratum 1 but with the additional characteristic that computer-based systems are wholly absent among the most popular types. Stratum 3 emphasizes publications, a diovisual materials, and school-based approaches and is not characterized by in absence of any particular approach.

A more overall comparison of the distribution of delivery systems between strata can be made through the same sort of P-P plot used to compare the demographic variables. These are shown in Figures 6, 7 and 8. These P-P plots indicate that the distribution of delivery systems is more similar than was the distribution of demographic characteristics (as would be expected, since the stratification was done on bases related to some of the demographic variables rather than to the delivery system variables). We note that Strata 2 and 3 are similar and are somewhat different from Stratum 1 schools.



The Answer to the Research Question

The analyses described above have provided a rough idea of the general structure of the data, and have led to some general statements comparing schools within and between strata. The original research question required examination of a 64-by-64-by-3 contingency table, a task that seemed inadvisable because of the possibility of viewing mostly empty cells. The exploratory analyses, however, have shown that while most cells will be empty, there will be a few cells that will account for much of the data. Therefore it is worthwhile to look at the full contingency table, one layer (stratum) at a time.

It is not particularly instructive to reproduce the whole contingency table for each stratum. For all three strata it runs to 24 pages. However, it is useful to combine Table 41 (the eight most popular demographic types) and Table 43 (the nine most common types of delivery systems). Let us also extend Table 43 to include all delivery system types that occurred 10 or more times within a stratum. The combinations appear in Tables 44 (Stratum 1), 45 (Stratum 2), and 46 (Stratum 3). In each case, the demographic types occupy rows and the delivery types occupy columns. Both are in descending order of popularity. The row and column totals are those for the full contingency table.

It is worth noting in Table 44 that for only five of the 17 columns does the sum of the entries in the cells come to more than 50 percent of the total for the delivery type represented by the column. For example, the sum of the entries in column 1 is 38. This is 58 percent of the 66 occurrences of the 101101 delivery type that were found in the entire stratum. That is, for that delivery type, most of the occurrences were among the eight most frequently recurrent demographic types. This phenomenon also occurs in columns 4, 8, 9, 14, and 16, there is a congruence of the most "popular" delivery type and demographic type, as shown in the following table.

| Column | Column Total | Stratum Total | Percent of Columns in Table |
|--------|--------------|---------------|--------------------------------|
| 1 | 38 | 66 | 58 |
| 4 | 25 | 41 | 61 |
| 8 | 14 | 24 | 58 |
| 9 | 14 | 21 | 67 |
| 14 | 7 | 12 | 58 |
| 16 | 7 | 11 | 64 |

By contrast, for the delivery types tallied in columns 2, 3, 5, 6, 7, 10, 11, 12, 13, 15, and 17, the majority of occurrences throughout the stratum were not among the eight most "popular" demographic types, as shown in the following table.



| Column | Column Total | Stratum Total | Percent of Stratum in Table |
|--------|--------------|---------------|--------------------------------|
| 2 | 21 | 57 | 37 |
| 3 | 15 | 47 | 32 |
| 5 | 10 | 27 | 37 |
| 6 | 7 | 26 | 27 |
| 7 | 10 | 25 | 40 |
| 10 | 7 | 20 | 35 |
| 11 | 5 | 18 | 28 |
| 12 | 5 | 18 | 28 |
| 13 | 5 | 18 | 28 |
| 15 | 4 | 11 | 36 |
| 17 | 2 | 10 | 20 |

Do the delivery systems that cluster among the most "popul t" demographic types differ from those that cluster among the less popular ones? Before answering this question, we should note that the "popular" delivery types in this stratum all tend toward reliance on audiovisual materials (13 occurrences) and experience-based approaches (15 occurrences). Other characteristics are less pronounced.

Table 47 compares the two sets of delivery types. The table underlines the frequency of audiovisual and experience-based approaches in both groups. But clear differences emerge. Schools of the less common demographic types use noncomputerized sorts (e.g., needlesorts and keysorts) less frequently than schools in the more common demographic types. Only one delivery type out of 11 has such a sort in the infrequent group, whereas three out of six have it in the frequent group. The same phenomenon occurs with respect to microforms: two occurrences in the infrequent group, four in the frequent group. Most pronounced of all is the difference in reliance on publications. All the most common delivery types that cluster in the most common demographic type use publications rather heavily; only 3 of the 11 most common delivery types do so if they cluster outside the most common demographic type

Similar comparisons may be made from Tables 45 and 46 for Strata 2 and 3. The results differ from those for Stratum 1. For Stratum 2 (Table 45), there are 18 columns. In every case, the most common delivery types are subsumed by the most common demographic types. In fact, in no case does the total for a column in the table fall below 61 percent of the total for that type for the stratum as a whole. These results are perhaps not surprising considering the nature of Stratum 2. It was the most homogeneous of the three strata. Consequently, for Stratum 2, the conclusions about demographic types and the conclusions about delivery system types, previously considered separately, may be conjoined. That is, there is on the demographic side a predominance of white students and a low dropout rate, smaller enrollments, and fewer than four full-time-equivalent



rounselors conjoined with, on the delivery system side, a considerable emphasis on audiovisual and school-based systems, and an absence of keysorts or needlesorts, together with an absence of computer systems.

The analysis of Table 46 for Stratum 3 reveals a situation much like that for Stratum 2. In only three of the 20 columns do the column totals fall below 50 percent of the stratum total for the delivery system type represented in a column. These are columns 14, 16, and 18. The three types in these columns do not appear distinctively different from the other 17 types. It seems likely therefore, " "Tratum 3 is characterized on the demographic side by a predominance of white dents and a lower dropout rate as shown on Table 41, and on the delivery system side by emphasis on publications, audiovisual materials, and school-based approaches, with no pronounced absence of other approaches, as shown on Table 43.

The "nothing" delivery pattern--000000--appears among the popular types in all three strata. It ranks 12th in frequency in Stratum 1, 6th in Stratum 2, and 11th in Stratum 3. It seems to be associated with fewer than four full-time-equivalent counselors (fifth digit of the demographic characterizers). Schools that offer the least with regard to career delivery systems a'so have fewer counselors to serve as resources. The nothing pattern does not seem to be associated strongly with other demographic variables.

The "everything' delivery pattern--llllll--also appears among the popular types in all three strata. It ranks ninth in Stratum 1, 15th in Stratum 2, and third in Stratum 3. In Strata 2 and 3 it is associated with a school population that is more than half white, for that variable characterizes those strata, in Stratum 1 it does not seem to be closely associated with any demographic variable.

These results are interesting in themselves, but they do not seem particularly useful for the determination of policy. They confirm what one surmised—namely, that the strata are different on demographic variables, as they ought to be if the schools were chosen according to plan, and that different patterns of career delivery systems exist. The analysis does not shed much light on the extent to which the delivery systems serve the students well and efficiently.



Table 40
Distribution of Schools by Demographic Type

| <u>(F)</u> | Number of categories sampled | Which a category | Number of schools represented | Cumulative Proportion (percent) |
|------------|------------------------------|------------------|-------------------------------------|---------------------------------------|
| 258 | 1 | 011101 | 258 | 13.6 |
| 201 | 2 | 111111 | 459 | 24.2 |
| 183 | 3 | 001101 | 642 | 33.9 |
| 161 | 4 | 011100 | 803 | 42.4 |
| 109 | 5 | 111110 | 912 | 48.2 |
| 98 | 6 | 001100 | 1010 | 53.3 |
| 55 | 7 | 001001 | 1065 | 56.2 |
| 52 | 8 | 111100 | 1117 | 59.0 |
| 50 | 9 | 111011 | 1167 | 61.6 |
| 47 | 10 | 111101 | 1214 | 64.1 |
| 39 | 11 | 101111 | 1253 | 66.2 |
| 39 | 12 | 001000 | 1 +2 | 68.2 |
| 35 | 13 | 110111 | 1-27 | 70.1 |
| 34 | 14 | 100011 | 1361 | 71.9 |
| 29 | 15 | 000001 | 13 9 0 | 73.4 |
| 28 | 16 | 000101 | 1418 | 74.9 |
| 26 | 17 | 101011 | 1444 | 76.2 |
| 26 | 18 | 101101 | 1470 | 77.6 |
| 25 | 19 | 110011 | 14 9 5 | 78. 9 |
| 25 | 20 | 011001 | 1520 | 80.3 |

^aMeaning of digits in order, left to right:



¹st 1 = 750 or more in grades 10, 11, 12

²nd 1 = More than half students academic

³rd 1 = More than half students white

⁴th 1 = Dropout rate 14% or less

⁵th 1 = 4 or more FTE counselors

⁶th 1 = Presence of a head of guidance

⁰⁼⁼ The opposite condition

| | | | | | | | | | Sı | rati | mr | | | | | | | | | |
|----|-------------------------|---------|-------------------|-----------|------------|---------------|-----|------------|---------|------|---------|------------|---------------|-----|------------|---------|------|---------|------------|---------------|
| _ | | | 1 | | | | | | | 2 | | | | | | | 3 | | | |
| f | Enrollment ^a | Program | Race ^C | Dropout d | Counselors | Head Guidance | f | Enrollment | Program | Race | Dropout | Counselors | Head Guidance | f | Enrollment | Program | Race | Dropout | Counselors | Head Guidance |
| 52 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | n | 1 | 1 | 1 | 0 | 1 | 131 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 1 | 1 | 0_ | 1 | ı | 1_ | 129 | 0 | 0 | 1 | 1 | 0 | 1 | 76 | 1 | 1 | 1 | 1 | 1 | 0 |
| 29 | 1 | 0 | n | 0 | 1 | 1_ | 85 | 0 | 1 | 1 | 1 | 0 | 0 | 70 | 0 | 1_ | 1 | 1 | 0 | 1 |
| 26 | 1 | 1 | 1_ | 1 | 1 | 0 | 60 | 0 | 0 | 1 | _1 | 0 | 0 | 62 | 0 | 1 | 1 | 1_ | 0_ | 0 |
| 24 | 1 | 1 | 1 | 0 | 1 | _1_ | 20 | 0 | _0_ | 1 | 0 | 0 | 0 | 44 | 0 | 0 | 1 | 1 | 0 | 1 |
| 22 | _1_ | 1 | 0 | 0 | 1_ | 1 | _18 | 0 | 0 | 1 | 0 | 0 | 1_ | _31 | 0 | 0_ | 1 | 1 | 0 | 0 |
| 21 | 1 | 0 | 0_ | 1 | 1 | 1 | 18 | 0 | 1 | 1 | 0_ | 0 | 1_ | 30 | _1_ | 1 | 1 | 1 | 0 | 1 |
| ٦١ | 1_ | 1 | 1 | 1 | 0 | 0 | 18 | 1 | 1_ | 1 | _1_ | 1 | 1 | 25 | 1_ | 1 | 1 | 0 | 1_ | 1 |



! ,

a l=750 or more in grades 10, 11, and 12 or ibined

b l=More than half the students in an academic program

c l=More than half the students white

d l=Dropout rate 14% or less

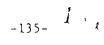
e l=4 or more fulltime-equivalent counselors

f l=Presence of a head of guidance

n to amonder and detan

| Туре | Variable identification | Criterion/Description |
|------|-------------------------------|---|
| 1 | Publications | Does the school provide more than 11 publications? (items Al-AlO, Bl-Bl4, Cl-C6, Dl-D4, El-E3, and Fl-F4) |
| 2 | Computer | Does the school provide any computerized delivery system? (items G1-G8) |
| 3 | Audiovisual | Does the school provide any audiovisual information delivery? (items H1-H3) |
| 4 | Microforms | Does the school have <u>any</u> microforms? (items Il-I3) |
| 5 | Manual Sorts | Does the school have <u>any</u> noncomputerized card sorting? (items J1-J3) |
| 6 | School-arranged Experience | Does the school provide more than 3 demonstrations, lectures, etc ? (items Kl-KlO) |

 $^{^{\}rm a}$ Types are composed of six 1-0 dichotomous variables computed from Question 11 of Part B of the school questionnaire





| | | | | | | | | | S 1 | tratu | .m | | | | | | | | | |
|-----------------|--------------|----------|-------------|-----------|--------------|-------------------|------------------|--------------|----------|-------------|-----------|--------------|-------------------|------------------|--------------|----------|-------------|-----------|--------------|--|
| | | | 1 | | | | | | | 2 | | | | | | | 3_ | | | |
| f | Publications | Computer | Audiovisual | Microform | Manual sorts | School experience | f | Publications | Computer | Audiovisual | Microform | Manual sorts | School experience | f | Publications | Computer | Audiovisual | Microform | Manual sorts | |
| 56 | 1 | 0 | 1 | 1 | 0 | 1 | 61 | 0 | 0 | 1 | 0 | 0 | 1 | 64 | 1_ | 0 | 1 | l_ | 1 | |
| 57_ | 1 | 0 | .1 | 0_ | 0 | 1 | <u>5</u> 0 | 1_ | 0 | 1 | 1 | 1_ | 1 | 63 | 11 | 0_ | 1 | 1 | 0 | |
| 47 | 0 | 0 | 1 | 0 | 0 | 1_ | 48 | 1 | 0 | 1 | 1 | 0 | 1 | 44 | 1 | 1 | 1_ | 1 | 1_ | |
| 41 | 1 | 0 | 1 | 1 | 1 | 1 | 45 | 0 | 0 | 1 | 0 | 0 | 0_ | 43 | 1 | 0 | 1_ | 0 | 0 | |
| 2 7 | 0 | _0_ | 0_ | 0 | 0 | 1 | 45 | 1_ | _ 0 | 1 | 0 | 0 | 1_ | 42 | 1_ | 1 | 1 | 1 | 0 | |
| 26 | 00 | 1 | _1 | 0_ | 0 | _1_ | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 1_ | 0_ | 1 | 0 | 11 | |
| 25 | 0 | 0 | 1 | 1 | 0 | 1 | 36 | 0 | 0 | 1 | 1 | 0 | 1_ | 34 | 0 | 0 | 1_ | 0 | 0 | |
| 24 | 1 | 1 | 11 | 1 | 0 | _1_ | 28 | 0 | 0_ | 0 | 0 | 0 | 1 | <u>3</u> 2 | 1 | _1_ | 1 | 0 | 00 | |
| 21 | 1 | · 1 | 1 | 1 | <u>l</u> | 1 | 21 | 0 | 0 | 1 | 0 | 1_ | 1_ | 31 | 1 | 1 | 1_ | 0 | 1_ | |
| 34 ^a | _ | | | | | | 377 ^b | 1 | | | | | | 394 ^c | | | | | | |

a 62% of stratum total

c 57% of stratum total



b 56% of stratum total

Table 44

Demographic Type Versus Delivery Type for Stratum 1

| | | 1 | Deli | very | | | | | | | | | | | | | - | | | | | | |
|---|---------|------|------|-----------------|---|----|----|-----|-----|-----|--------------|-----|-----|----|----------|-----|-----|-----|-----|-----|-----|-----------------------|-------|
| | | | tу | pe ^a | | - | 7 | 7 | _ | 1 | 7 | 7 | 7 | - | 1 | - | 0 | 0 | 7 | 7 | - | 1 | |
| | · · · · | | • | | | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | - | 0 | 7 | 0 | 0 | , | 0 | 0 0 | 1 0 | ာနေ |
| | Demo- | - \ | | | 1 | 7 | 0 | 0 | 7 | 0 | 0 | | 7 | 7 | 0 | 0 | 0 0 | 1 0 | 1 0 | 0 0 | 0 | 7 | Total |
| 0 | raph | ic | | | ł | - | - | - | 7 | 0 | 1 | 0 1 | 1 1 | 7 | 7 7 | 0 1 | 0 | 0 | | 7 | 0 | $\boldsymbol{\dashv}$ | To |
| • | | | | | | 0 | 0 | 0 0 | 1 0 | 0 0 | 0 1 | 0 | 7 | | , , (| - | 0 | 0 | 7 | 0 | 7 | 0 | |
| | ty | peb | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 10 | 6 | 1 | 9 | 2 | 1 | 0 | 3 | 3 | 1 | 2 | 1 | 0 | 4 | 1 | 1 | 2 | 52 |
| 1 | 1 | 0 | 1 | 1 | 1 | 6 | 2 | 0 | 6 | 1 | 1 | 3 | 1 | 4 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 30 |
| 1 | 0 | 0 | 0 | 1 | 1 | 6 | 3 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 29 |
| 1 | 1 | 1 | 1 | 1 | 0 | 4 | 2 | 1 | 0 | 3 | 2 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 26 |
| 1 | 1 | 1 | 0 | 1 | 1 | 8 | 1 | 0 | 3 | 0 | 1 | 0 | 2 | 1 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 24 |
| 1 | 1 | υ | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 22 |
| 1 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 6 | 2 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 21 |
| 1 | 1 | 1 | 1 | 0 | 0 | 2 | 3 | 3 | 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 21 |
| | То | tals | С | | | 66 | 57 | 47 | 41 | 27 | 26 | 25 | 24 | 21 | 20 | 18 | 18 | 18 | 12 | 11 | 11 | 10 | 540 |
| | | | | | | | | | | | | | | | | | | | | | | _ | |

a Meaning of digits in order, bottom to top.

c Totals are for the whole matrix, not just the portion in the table.



lst l=More than ll publications

²nd l=Presence of computerized system

³rd l=Presence of audiovisual

⁴th l=Presence of microforms

⁵th l=Presence of noncomputerized sorts

⁶th l=More than 3 kinds of school-arranged experience
0=the opposite condition

b Meaning of digits, left to right:

lst 1=750 or more in grades 10,11,12

²nd l=More than half of students academic

³rd l=More than half students white

⁴th 1=Dropout rate 14% or less

⁵th 1=4 or more FTE counselors

⁶th l=Presence of a head of guidance 0=the opposite condition

Table 45

Demographic Type Versus Delivery Type for Stratum 2

| | | | | | | | | | | | | | | | | | | | _ |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|--------|----|-----|----------|-----|-----------------------|----------|----|----|----|------------|
| Delivery | | | | | | | | | | | | | | _ | | 0 | 0 | 0 | |
| type | - | - | 1 | 0 | - | 0 | | 7 (| ⊣. | 7 | 0 0 | 0 1 | 0 1 | - | <u>_</u> | 0 | - | _ | |
| type | 0 | 7 | 0 | 0 | 0 | 0 | 1 0 | 0 0 | 0 1 | 0 | - | 7 | H | - | \prec | | 0 | _ | , a |
| | 0 | ~ | ٦. | 1 0 | 1 0 | 0 0 | ~ | 0 |) - | _ | - | - | 0 | $\boldsymbol{\vdash}$ | - | 0 | 0 | - | Total |
| Demo- | 1 | 0 1 | 0 1 | 0] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \vdash | 0 | 0 | _ | 0 | 0 | 0 | lot |
| graphic | 0 0 | | 7 | 0 | - | 0 | 0 | 0 | 0 | ٦ | 0 | - | 0 | 0 | ~ | 0 | 0 | 0 | • |
| type | | | | | | | | | | | | | | | | | | | |
| 0 1 1 1 0 1 | 13 | 20 | 11 | 10 | 13 | 6 | 10 | 6 | 6 | 8 | 2 | 1 | 5 | 5 | 2 | 2 | 1 | 3 | 178 |
| 0 0 1 1 0 1 | 13 | 8 | 5 | 9 | 5 | 14 | 9 | 7 | 8 | 2 | 5 | 2 | 3 | 5 | 0 | 2 | 2 | 2 | 129 |
| | | | | | | | | , | | | - | | | - | | , | | • | |
| 0 1 1 1 0 0 | 7 | 6 | 5 | 7 | 7 | 3 | 3 | 8 | 2 | 3 | 0 | 6 | 1 | 2 | 4 | 1 | 4 | 1 | 85 |
| 0 0 1 1 0 0 | 7 | 0 | 1 | 5 | 3 | 9 | 3 | 4 | 1 | 0 | 1 | 1 | 4 | 1 | 1 | 3 | 0 | 0 | 60 |
| 0 0 1 0 0 0 | 5 | O | 0 | 3 | 2 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 20 |
| 0 0 1 0 0 1 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 18 |
| 0 1 1 0 0 1 | 2 | 1 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 18 |
| 1 1 1 1 1 1 | 1 | 2 | 5 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 18 |
| Totals ^C | 61 | 50 | 48 | 45 | 45 | 43 | 36 | 28 | 21 | 20 | 18 | 17 | 16 | 15 | 14 | 11 | 11 | 11 | 668 |

- a Meaning of digits in order, bottom to top
- 1st 1=More than 11 publications
- 2nd l=Presence of computerized system
- 3rd l=Presence of audiovisual
- 4th l=Presence of microforms
- 5th l=Presence of noncomputerized sorts
- 6th l=More than 3 kinds of school-arranged experience 0=the opposite condition

- b Meaning of digits, left to right
- 1st 1=750 or more in grades 10, 11, 12
- 2nd l=More than half of students academic
- 3rd l=Mere than half of students white
- 4th l=Dropout rate 14% or less
- 5th 1=4 or more FTE counselors
- 6th l=Presence of a head of guidance 0=the opposite condition
- c Totals are for the whole matrix, not just the portion in the table.

11.



Table 46

Demographic Type Versus Delivery Type for Stratum 3

| | | | | | | | | | | | | | | | | | | | | | _ | | | | | | |
|-----|-----------------------|-----------------------|---|--|---|-----|--|--|---|---|---|---|--|------------------------|--|--|---------------|---|--|--|--|--|--|--|---------------|----------------|------------------------|
| _ | | ח | a 1 4 | 1/41 | | 1 | | 1 | 7 | -4 | 1 | 1 | | 7 | | 1 | 0 | 1 | 7 | 1 | 0 | 0 | 1 | 7 | 7 | 7 | |
| | | <i>D</i> (| | | | - | | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | - | 0 | |
| | \ | \ | | typ | o e | - | | 7 | 1 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 1 | -4 | 0 | 0 | ٥_ |
| Deπ | BO. | _ | / | | | 1 | | - | - | 7 | - | - | 1 | - | 7 | 0 | 0 | 0 | 7 | 7 | 0 | 7 | 7 | 7 | ٦ | 0 | 818 |
| | | | С | / | | 0 | | 0 | _ | 0 | 7 | 0 | 0 | - | 1 | 0 | 0 | 0 | 1 | 0 | - | 0 | 1 | 0 | 0 | - | Tot |
| | | | |) | |] - | | | | - | | - | 0 | | | 0 | 0 | | 0 | 0 | 0_ | | 0 | 0 | 0 | 0 | |
| 1 | | 1 | 1 | | 1 | ,, | | 1.2 | 1 7 | 8 | 12 | я | 4 | 13 | 10 | 3 | 0 | 1 | 3 | 1 | 1 | 1 | 2 | 0 | 3 | 1 | 131 |
| 1 | | 1 | 1 | 1 | | | | | | | | | | | | 2 | 0 | 7 | 3 | 0 | 3 | 0 | 2 | 0 | 0 | 3 | 76 |
| | | | | 1 | • | | | • | | | _ | | | | | 1 | _ | 1 | 2 | | 0 | 1 | 0 | 1 | 1 | 1 | 70 |
| 1 | | 1 | 1 | Ü | 1 | 6 | | 5 | 5 | 6 | 2 |) | | _ | 2 | | , | | 2 | _ | • | 1 | 1 | 1 | 1 | 1 | 62 |
| 1 | | 1 | 1 | 0 | 0 | 4 | | 10 | 0 | 3 | 5 | 1 | 3 | Ŋ | 1 | 4 | 4 | 1 | 2 | 2 | U | _ | 1 | _ | _ | | |
| 0 | | 1 | 1 | 0 | 1 | 4 | | 9 | 0 | 3 | 1 | 3 | 3 | 0 | 3 | 1 | 3 | 1 | () | 0 | 1 | 0 | 0 | 2 | 1 | Ü | 44 |
| 0 | | 1 | 1 | 0 | 0 | 5 | ı | 0 | 0 | 2 | 0 | 3 | 3 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 2 | 0 | 2 | 1 | 0 | 0 | 31 |
| 1 | | 1 | 1 | 0 | 1 | 4 | | 2 | 2 | 3 | 6 | 2 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 30 |
| 1 | | 1 | 0 | 1 | 1 | | | 2 | 4 | 0 | 5 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 25 |
| | Ţ | ot | als | c | | | | 63 | 44 | 43 | 42 | 41 | 34 | 32 | 31 | 22 | 22 | 20 | 17 | 15 | 12 | 12 | 11 | 11 | 10 | 10 | 686 |
| | 1 1 1 1 0 | 1 1 1 0 0 | Demo- graphi 1 1 1 1 1 1 0 1 0 1 1 1 1 1 | Demo- graphic rype 1 | Demo- graphic rype 1 1 1 1 1 1 1 0 1 1 1 0 0 1 1 0 0 1 1 0 1 1 1 0 | | Demo- graphic rype 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Delivery type Type 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Delivery type Type 1 1 1 1 1 1 1 1 1 12 1 1 1 1 0 9 4 1 1 1 0 0 4 10 0 1 1 0 1 4 9 0 1 1 0 1 4 2 1 1 0 1 1 2 2 | Demo- graphic type 1 1 1 1 1 1 1 11 12 17 1 1 1 1 0 1 6 5 5 1 1 1 0 0 4 10 0 0 1 1 0 1 4 9 0 0 1 1 0 1 4 2 2 1 1 0 1 1 2 2 4 | Demo- graphic rype 1 1 1 1 1 1 1 11 12 17 8 1 1 1 1 0 1 6 5 5 6 1 1 1 0 1 4 9 0 3 0 1 1 0 1 4 2 2 3 1 1 0 1 1 2 2 4 0 | Delivery type I I I I I I I I I I I I I I I I I I I | Demo- graphic type 1 1 1 1 1 1 1 11 12 17 8 12 8 1 1 1 1 0 1 6 5 5 6 2 5 1 1 1 0 1 4 9 0 3 1 3 0 1 1 0 1 4 2 2 3 6 2 1 1 0 1 1 2 2 4 0 5 1 | Demo- graphic rype 1 | Demo- graphic Type 1 1 1 1 1 1 1 1 1 12 17 8 12 8 4 13 1 1 1 1 0 1 6 5 5 6 2 5 9 1 1 1 1 0 1 4 9 0 3 1 3 0 1 1 1 0 1 4 2 2 3 6 2 0 2 1 1 0 1 1 2 2 4 0 5 1 0 0 | Delivery type To To Co Co Co Co Co Co | Demo- rype 1 | Delivery type The property The | Demo- graphic 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Demo- Type To all all all all all all all all all al | Demo- Type To a company type The company type | Demo- Type The property type | Demo- graphic 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Delivery type ⁴ I O I O O I O O I O O O O O O O O O O | Demo- type 1 | Demo- Type 1 | Demo- graphic type 1 |

- a Meaning of digits in order, bottom to top
- lst l=More than ll publications
- 2nd l=Presence of computerized information
- 3rd 1=Presence of audiovisual
- 4th l=Presence of microforms
- 5th l=Presence of noncomputerized sorts
- 6th 1=More than 3 kinds of school-arranged experience O=the opposite condition

- b Meaning of digits in order, left to right:
- 1st 1=750 or more in grades 10, 11, 12
- 2nd l=More than half students in academic
- 3rd l=More than half students white
- 4th l=Dropout rate 14% or less
- 5th 1=4 or more FTE counselors
- 6th l=Presence of a head of guidance 0=the opposite condition
- c Totals are for whole matrix, not just the portion in the table.





Table 47

Patterns of Delivery Types that are Found Infrequently Among the Most "Popular" Demographic Types Compared with Those Found Frequently, Stratum 1

| Infr | equent | Freq | uent |
|--------|----------|--------|---------|
| Column | Patternb | Column | Pattern |
| 2 | 101001 | 1 | 101101 |
| 3 | 001001 | 4 | 101111 |
| 5 | 000001 | 8 | 111101 |
| 6 | 011001 | 9 | 111111 |
| 7 | 001101 | 14 | 111011 |
| 10 | 111001 | 16 | 100001 |
| 11 | 101011 | | |
| 12 | 000000 | | |
| 13 | 001000 | | |
| 15 | 010001 | | |
| 17 | 011101 | | |

 $^{^{\}rm a}{\rm Fewer}$ than 50% of occurrences within the stratum are among the most "popular" demographic types.

b_{Meaning} of digits in order, left to right

lst l = More than ll publications

2nd 1 = Presence of computerized system

3rd l = Presence of audiovisual

4th 1 = Presence of microforms

5 th 1 = Presence of noncomputerized sorts

6th 1 = More than 3 kinds of school-arranged experience

0 = the opposite condition



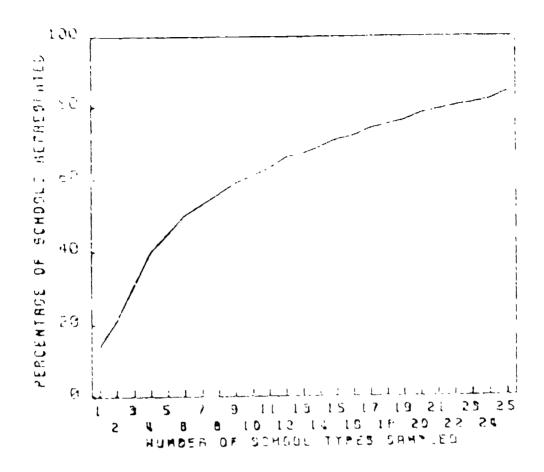


Figure 2. Graph of number of school types versus percentage of schools they represent.



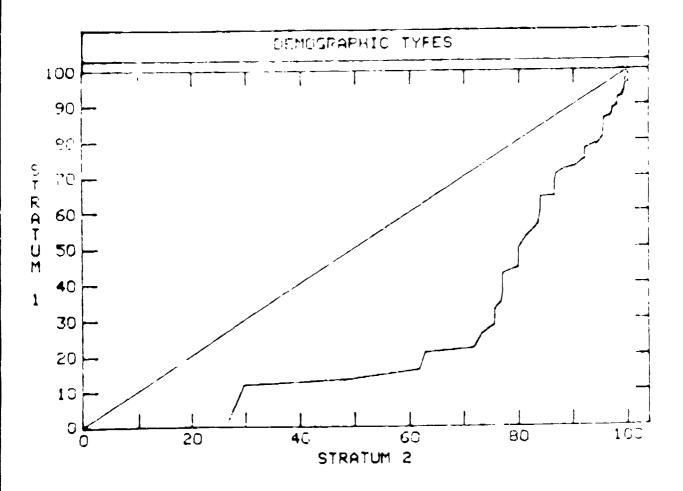


Figure 3. P-P plot of demographic types of Stratum 1 versus Stratum 2.





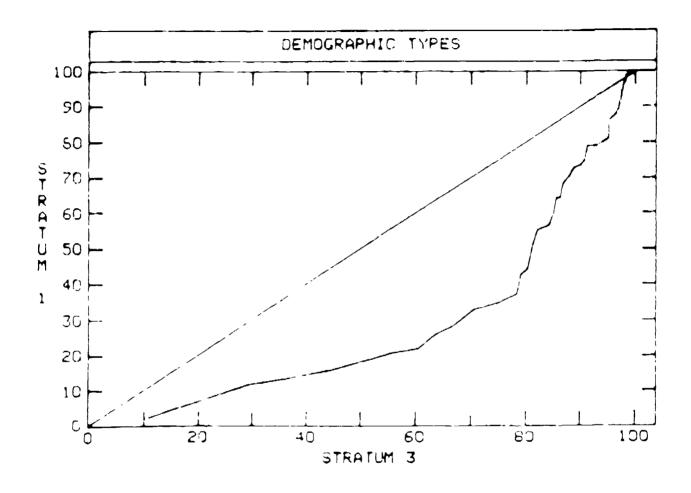


Figure 4. P-P plot of demographic types of Stratum 1 versus Stratum 3.



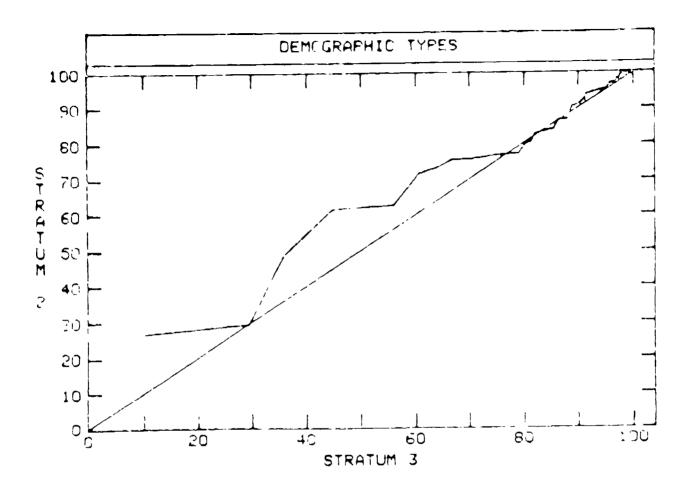


Figure 5. P-P plot of demographic types of Stratum 2 versus Stratum 3.

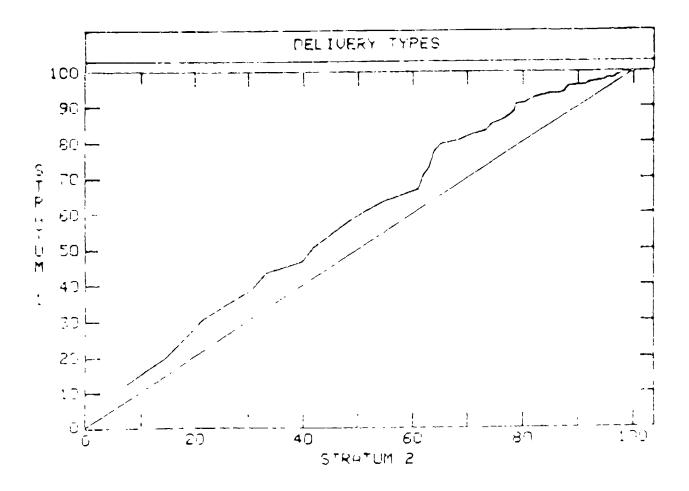


Figure 6. P-P plot of delivery types of Stratum 1 versus Stratum 2.



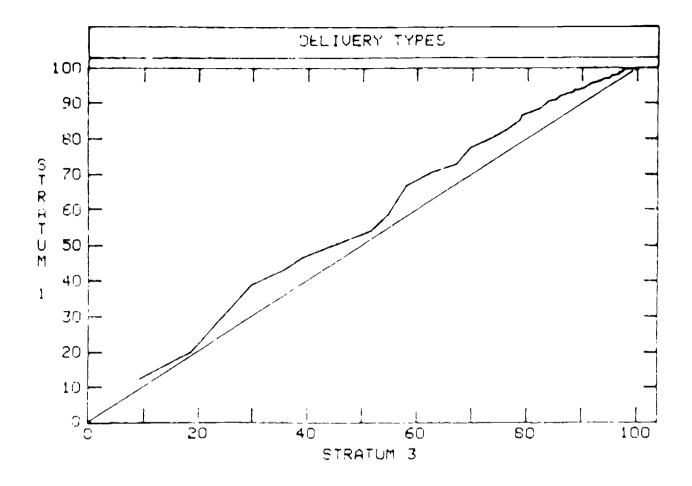


Figure 7. P-P plot of delivery types of Stratum 1 versus Stratum 3.

1



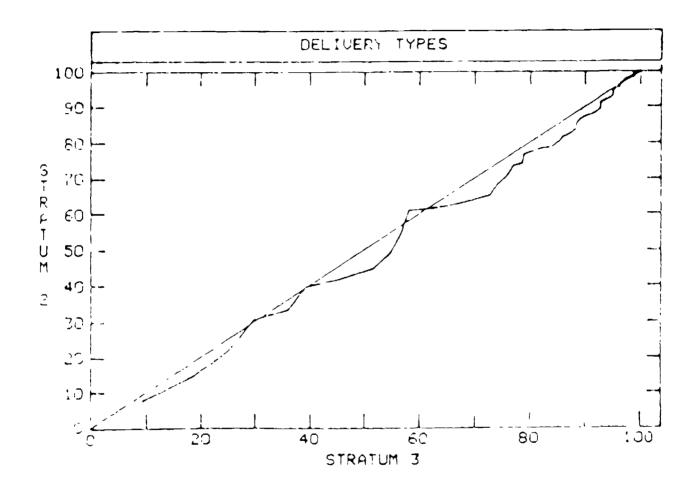


Figure 8 P-P plot of delivery types of Stratum 2 versus Stratum 3.



CHAPTER V

RESEARCH QUESTION B2

Questions b2, b3, and b4 (bl was eliminated at the suggestion of the Research Advisory Council) concern the management of career information resources and access to them. Question b2 is "What school staff are responsible for these resources and what are their responsibilities?" Other questions related to management (e.g., frequency of review of resources) will also be discussed in this section.

Head of Guidance

Question A8 asked whether there was someone at the school who served as director or head of CAREER guidance. The aim of the question was to find out if the function was performed and the wording was deliberately somewhat vague. The responses were strikingly uniform in the three strata; 62 percent responded yes in Stratum 1, 64 percent in Stratum 2, and 62 percent in Stratum 3. The national estimate was 63 percent, and the count of no response was less than 3 percent in any stratum.

Apparently a majority of schools—but not as many as two-thirds—see them-selves as having some centralized control over career guidance activities. In over a third of the schools the authority is presumably distributed rather than centralized. There is no way to tell which method is superior.

Responsibility for Specific Activities

Question 3 asked the school to indicate the staff members who were responsible for carrying out each of nine activities connected with management of career information resources. The results appear in Table 48. The figures in the cell are the percentages of the schools in each stratum that said that the staff member named in the column head was responsible for the activity described in the row. For each activity Stratum 1 is listed at the top, followed by the other strata and the national estimate. Although the schools were instructed to designate only one staff member per activity, some of them designated two or more, for the figures for each stratum add up to a little more than 100 percent. There were in addition a few "no responses" (usually less than 2 percent) for each activity. These are not shown in the table.

Once again the table shows considerable uniformity between strata. When the figures are large for one stratum, they tend to be large for the others, too. For the most part, responsibility is given mainly to guidance specialists—the director of guidance or staff and the coordinator of career education or staff. (These may be different titles for the same function.) Exceptions are planning major expenditures, where the principal or assistant principal has responsibility about equal to that of the guidance staff; supervising exploratory work—experience



programs, where teachers' responsibility is, not surprisingly, at least equal to that of the director of guidance or staff; and helping students locate materials or advising them on where to look, as well as maintaining an index of occupational information materials, where the librarian has responsibility in about 13 to 20 percent of the schools.

The percentages in "Task not performed" column are gratifyingly small, except in two instances. The first is understandable. The apparent lack of supervision of work experience (20 percent of the schools in the national estimate) is almost certainly due to the absence of work experience programs in many schools. The percentages of schools indicating that they offered exploratory work experience (Item K3, Question 11) were 75 for Stratum 1, 49 for Stratum 2, 70 for Stratum 3, and 58 for the national estimate.

The other task not performed in a large number of schools is making data on jobs held by former students available to students. This item was included in the questionnaire at the suggestion of the Research Advisory Council for the study, all of whose members thought such data had an important influence on the career decisions of high school students. Such data are not made available in over 40 percent of the schools.

The role of teachers is quite small except for supervising exploratory work experience and, to a much smaller extent, evaluating new or replacement materials. The principal or assistant principal has a more active role than the teachers do, except for supervising work experience. In the main, the picture is one in which the schools, regardless of stratum, have invested major responsibility in the hands of a director of guidance and his or her staff, or in the hands of a coordinator of career education and his or her staff.

Activities of Guidance Counselors

One career information resource is guidance counselors themselves. Question 4 asked, "To what extent do the professional guidance counselors in your school perform each of the following activities?" Professional guidance counselors were defined as those with state certificates in guidance. The activities and the responses to the question are shown in Table 49.

Table 49 shows that, in the eyes of the schools, counselors have a heavy management responsibility in serving as occupational resources themselves. The responses are uniform not only across strata but also to a large extent across the categories of activities. Generally, in about two-thirds of the schools counselors are responsible "a great deal of the time" for helping students in the activities named. The nature of the question invites a guess on the part of the person filling out the questionnaire, for hard data would surely be almost impossible to get. Yet the uniformity of the responses supports the impression that the responses really reflect what is going on.



-150-

Counselors are also seen as effective motivators for getting students to use occupational information; 93 percent of responding schools (national estimate) called counselor referrals somewhat effective or very effective in serving this purpose (Question 2). This matter is discussed more fully elsewhere in this report.

The Management of the Review Function

Occupations may change rapidly in times of technological and social pressure, and information about earnings quickly decays in inflation. Students laugh at films showing people in cars or clothes ten years out of date. Therefore it is desirable for schools to provide for review of existing and new materials in their management of resources. Committees are often used for this purpose. Who should be members of the committees?

Question 5 addressed this issue. Responses are shown in Table 50. The most striking feature of this table is the finding that more than 70 percent of the schools have not established committees for the review of occupational information resources. This does not necessarily mean that no review takes place at all. Table 48 shows that less than four percent of the schools do not evaluate new materials or decide when to discard old ones. But a review committee would seem to be a desirable safeguard for preserving the integrity of occupational information. It may be noted that about three-quarters of the schools had occupational handbooks for the military among their resources; 53 percent had pamphlets prepared by professional associations; 48 percent had pamphlets prepared by private businesses (Table 9, Items A8, Bll, and Bl2). These resources have been criticized for painting inaccurately rosy pictures for recruiting students into the occupations they cover. Some of them are very good, but they certainly should be subjected to critical review to weed out propaganda, just as all resources should be examined for obsolescence.

Guides and Indexes for Selecting Guidance Materials

The guides and indexes used by school staff to order or select guidance materials are part of the management of career information resources. Question 10 asked for this information, and the responses are shown in Table 51.

The table shows that a wide variety of resources are used and that very few schools answered "one." Again, responses were uniform across strata. The most popular resources are publishers' catalogues, which usually come unsolicited. They are use' by 66 percent (national estimate) of the schools. Also popular are the Career Index (Chronicle Guidance Publications annual directory) (51 percent), the Educator's Guide to Free Guidance Materials (50 percent), and the Career Guidance Index (Careers, Inc.) (46 percent). The NVGA Bibliography of Current Career Information, which rates materials in accordance with published criteria, is not used much. However, the Vocational Guidance Quarterly, an NVGA journal that also rates materials by the same standards, is used more frequently.



Responsibility for actually selecting materials may be inferred from Table 48. For the most part, the responsibility belongs to the director of guidance or staff, or, less frequently, to the coordinator of career education or staff, the principal, or a teacher.

Other Management Activities

Table 48 showed that the director of guidance or staff most often bore responsibility for deciding when to discard old or obsolete materials. Less frequently this responsibility was exercised by the coordinator of career guidance or staff or by the librarian. How often are resources reviewed for obsolescence?

Questions 18 and 29 ask for this information about publications (18) and audiovisual, microfiche, and noncomputerized sorting materials (29). Responses are shown in Table 52. The figures for publications are the percentages of schools in each stratum. The corresponding figures for audiovisual, microfiche, and noncomputerized sorting materials are the percentages of schools that have the resource within each stratum.

Both parts of the table show that in general over 60 percent of the schools review these four classes of resources at least once a year. Conversely, 30 to 40 percent do not review them so often, and from 5 to 8 percent never review them at all. Even though different classes of occupational information age at different rates (information about earnings and outlook decaying the fastest), most writers on the subject agree that it should all be reviewed, but not necessarily be discarded, at least once a year. Robert Hoppock (1976) says, "Every library of occupational information should be thoroughly weeded once a year, at which time all obsolete publications should be removed" (p. 47). For 30 percent or more of the schools to neglect this important function is discouraging.



Table 48
Staff Responsible for Management of Career Information Resources

| ` | S aff Activity | tratum | Principal or assistant principal | Teacher | of guidance | | Librerian | State, regional, or district staff member | ! ! | Task not per- formed |
|-----|-------------------------|--------|----------------------------------|---------|----------------|----------|-----------|---|----------|-------------------------------|
| | | Š | | | | | | | 3 | 4 |
| R | Planning major | 2 | 37 36 | 3 | 27 34 | 15 | 6 4 | 2 | נ י 7 | 6 |
| | expenditures | 3 | 31 | 2 | 39 | 17 | | 3 | · 3 | 3 |
| | (for equipment or other | NE | 35 | 3 | 35 | 11 | 1 4 | 3 | 6 | 5 |
| | resources) | | 3,5 | , |] | 1 | ! | | | |
| , | Evaluating new | 1 | 13 | 9 | 41 | 22 | ; 8 | 5 | 3 | 4 |
| | or replacement | 2 | 14 | 12 | 52 | 11 | 7 | 1 | 2 | 3 |
| | materials . | 3 | 8 | 7 | 51 | 23 | 1 6 | 1 | 3 | 2 |
| | | NE | 12 | 10 | 51 | 16 | . 7 | 1 | 3 | . 2 |
| Ξ. | Helping stu- | 1 | 1 | 9 | 53 | 26 | 14 | 1 | 4 | 0 |
| | dents locate | 2 | | 7 | 69 | 9 | 13 | 0 | 2 | _ ^ |
| | materials or | 3 | | 6 | 58 | 25 | 11 | 0 | 4 | 0 |
| | | NE | . 3 | 7 | 64 | 15 | 13 | 0 | 3 | 0 |
| | to look for | ! | ! | t | | | | | | |
| | specific infor- | | 1 | 1 | 1 | 1 | | 1 | ' | |
| | mation on oc- | | | i I | | 1 | | | | |
| _ | cupations | ļ | - | 1 | <u> </u> | <u> </u> | | <u> </u> | | |
| i. | Arranging for | 1 | 11 | 7 | 50 | 28 | 0 | 1 | 4 | 2 |
| | special pro- | 2 | 19 | 6 | 62 | 9 | 0 | 0 | 2 | 3 |
| | grams, events | 3 | 1 | 6 | 56 | 26 | 1 | 0 | 4 | 2 |
| | or days | NE | 15 | 6 | 59 | 16 | 0 | 0 | 3 | 2 |
| | Supervising | 1 | 3 | 30 | 22 | 23 | 0 | 2 | 12 | 9 |
| • | exploratory | 2 | 9 | 23 | 25 | 11 | 0 | 2 | 6 | 25 |
| | work-experi- | 3 | 4 | 29 | 20 | 19 | , 0 | 2 | 13 | 14 |
| | ence programs | NE | 7 | 25 | 23 | 14 | . 0 | 2 | 8 | 20 |
| f . | Making date on | 1 | 2 | 9 | 28 | 16 | . 0 | 2 | 4 | 37 |
| | jobs held by | 2 | 5 | 5 | 36 | 7 | 1 | 1 | 3 | 42 |
| | former stud- | 3 | 1 | 7 | 29 | 12 | , 0 | 2 | 5 | 45 |
| | ents available | NE | 4 | 6 | 33 | 9 | , 0 | 1 | 3 | 43 |
| | to students | ↓_ | | | | ! | | 1 | | ↓.— |
| ١. | Deciding when | 1 | 7 | 7 | 47 | 23 | 11 | 1 4 | : 4 | 3 |
| • | to discard old | 2 | 12 | 7 | 60 | 8 | 10 | 0 | 2 | 2 |
| | and obsolete | 3 | 5 | 5 | 55 | 24 | 9 | 0 | ' 3 | 2 |
| | materials | NE | 9 | 7 | 57 | 15 | 10 | ' 0 | 1 3 | 2 |
| , | Maintaining in- | 1 | 1 | 3 | 47 | 24 | 19 | 1 | 4 | 5 |
| | dex of occupa- | 2 | 2 | 3 | 59 | 9 | 20 | 0 | 3 | 6 |
| | tional informa- | 3 | 1 | 2 | 47 | 24 | 18 | 0 | 5 | 5 |
| | | NF | 2 | 3 | 55 | 15 | 19 | 0 | 3 | 5 |
| ι. | Coordinating ac- | 1 | 4 | 6 | 53 | 31 | , 1 | 1 | 3 | 5 |
| | tivities with | 2 | | 5 | 69 | 11 | 2 | 0 | 2 | 5 |
| | external agen- | 3 | 2 | 6 | 55 | ' 27 | 1 2 | 2 1 | 6 3 | 5 |
| | cies that pro- | NE | , 6 | 5 | 63 | 18 | 2 | 1 | ر | |
| | vide occupa- | 1 | | i | 1 | | | | | i |

Figures are percentages of schools responding within each stratum. N's Stratum 1=540. Stratum 2=668, Stratum 3=686.



Table 49

Activities of Professional Counselors When Functioning as Career Information Resources

| Amount | Stratum | Not at all | Somewhat | A great | Not applicable, Don't know |
|---|-------------------|------------------|----------------------|----------------------|----------------------------------|
| a. Directing students to books, pamphlets, films, or other sources of GENERAL occupational information | 1 2 3 NE | 1 3 1 2 | 31 26 31 28 | 64 65 65 65 | 1 4 1 2 |
| b. Directing students to | 1 | 1 | 29 | 66 | 1 |
| SPECIFIC sources of | 2 | 3 | 22 | 69 | 4 |
| information for a | 3 | 3 | 28 | 66 | 1 |
| particular occupation | NE | 3 | 24 | 68 | 3 |
| c. Directly answering students' questions about occupational information | 1 | 1 | 26 | 69 | 2 |
| | 2 | 3 | 20 | 71 | 5 |
| | 3 | 2 | 26 | 69 | 2 |
| | NE | 2 | 22 | 70 | 4 |
| d. Interpreting occupational information obtained by students | 1 | 4 | 37 | 55 | 3 |
| | 2: | 4 | 34 | 56 | 5 |
| | 3 | 3 | 42 | 51 | 3 |
| | NE | 4 | 37 | 54 | 4 |
| e. Assisting students with career decisions after they have used some of the occupational information resources available | 1 | 2 | 33 | 60 | 2 |
| | 2 | 4 | 30 | 60 | 5 |
| | 3 | 1 | 34 | 61 | 2 |
| | NE | 3 | 31 | 60 | 4 |

All figures are percentages of the schools in the stratum, except for national estimates.



Table 50 Membership of Committees to Review Occupational Information Materials

| | - , - | St | ratum | |
|--------------------------------------|--------------|------------|-------|----|
| Resource | , 1 | 2 | ٠ 3 | NE |
| Principal | 10 | 9 | 8 | 9 |
| Guidance Counselors | 24 | 18 | 23 | 20 |
| Career education staff | 12 | 7 | 13 | 9 |
| Students | 5 | ' 3 | 3 | 3 |
| Teachers | 14 | 11 | 12 | 11 |
| Librarian | 10 | 9 | 8 | 9 |
| Local employers, labor leaders, etc. | 6 | 3 | 6 | 5 |
| Regional or state agency reps. | 3 | 1 | 2 | 2 |
| Parents | 6 | 3 | 4 | 3 |
| Other | 3 | 2 | 3 | 2 |
| We have no committee | 66 | 77 | 70 | 73 |
| No response | 2 | . 1 | . 1 | 1 |

Figures are percentages of schools in the stratum.

Totals sum to more than 100 because schools could check more than one item.



Table 51

Guides and Indexes Used by Schools for Ordering
or Selecting Guidance Materials

| | | Sti | ratum | |
|--|----|------|-------|----|
| Resource | 1 | 2 | 3 | NE |
| Career Guidance Index | 46 | , 44 | , 51 | 46 |
| Career Index | 49 | 46 | 62 | 51 |
| Counselor's Information Servic | 14 | 10 | 16 | 12 |
| Current Career & Occupational Literature | 11 | 7 | 8 | 7 |
| Educator's Cuide to Free Guidance Materials | 47 | 50 | 52 | 50 |
| Guidance Exchange | 2 | 2 | . 2 | 2 |
| Guide to Indexes as a Resource for Occs. | 6 | 5 | 6 | 5 |
| Guide to Local Occupational Information | 30 | 25 | 33 | 28 |
| Inde to Voc/Tech Education | 10 | 10 | 11 | 11 |
| Inform (APGA monthly newsletter) | 26 | 21 | 29 | 24 |
| Journal of College Placement | 7 | 7 | 6 | 7 |
| NVGA Bibliog. of Current Career Information | 5 | 2 | 6 | 3 |
| Vocational Guidance Quarterly | 28 | 25 | 33 | 28 |
| Index available from an external resource center | 23 | 17 | 2 ~ | 19 |
| Publishers' catalogs | 68 | 65 | . 70 | 66 |
| Other | 11 | 10 | . 12 | 11 |
| None | 5 | 4 | 3 | 3 |



Taile 52
Frequency of Review for Obsolescence in Career Informatica Resources

| Publications (Question 18) | | Strat | um | |
|----------------------------|------------|------------|------------|-----|
| Frequency of Revi 🕶 | 1 (540) | 2 (668) | 3 (686) | NE |
| Never | 5 | 6 | 4 | . 5 |
| Less han once a year | 24 | 27 | 22 | 25 |
| Once a year | 53 | 51 | 60 | 54 |
| More than once a year | 10 | 8 | 10 | 9 |
| No response | 7 | 9 | 5 | 7 |

Audiovisual, microfiche, noncomputerized sorts (Ouestion 29)

Resource Material

| | Audiovisual | | | Mi | crofict | ı e b | Noncomputer Sorting ^b | | |
|-----------------------|-------------|-------------|------------|------------|-------------------|--------------|-------------------------------------|------------|------------|
| | 1 (365) | 2 (432) | 3 (483) | 1 (209) | 2 (297) | 3 (325) | 1 (157) | 2 (240) | 3 (268) |
| Never | 7 | 5 | 6 | 8 | 7 | 6 | 7 | 5 | 7 |
| Less than once a year | 24 | 27 | 28 | 21 | 19 | 19 | 21 | 17 | 17 |
| Once a year | 51 | ; ; ; | 53 | 53 | 59 | 62 | 53 | 62 | 60 |
| More than once a year | 11 | 7 | . 8 | . 11 | 9 | 6 | 8 | 9 | 9 |
| Don't know | 7 | 6 | 6 | 7 | 6 | 6 | 11 | 8 | 7 |

^aFigures are percentages of schools in the stratum.



^bFigures are the percentages of responding schools that have the resource within each stratum for each resource. N's are shown in parentheses.

CHAPTER VI

RESEARCH QUESTION B3

Research Question b3 is "What arrangements must be made and by whom [for students to use these resources]?" It will be convenient to answer this question separately for publications; computerized systems; audiovisual, microfiche, and noncomputerized sorting materials; and work experience. Also, the word "arrangements" will be interpreted broadly to include more than getting the student and resource together in the same room. Students are not accessing information if they cannot understand it or if it is locked in a machine that they cannot operate. Also, if a resource is in such short supply that students are discouraged from seeking it, access is affected. Therefore "arrangements" will be regarded as including assistance for students and availability of the resources.

The questionnaire did not ask where the resources physically resided because the answer would not be particularly illuminating. The resources may be in the library, a career resource center, a counselor's office, a waiting room outside the counseling area, or in various places scattered throughout the school. The questionnaire concentrated on identifying persons who scheduled access to the resources or helped students use them, and on hindrances that might restrict students' access.

Access to Publications

Accessing and advising. The main difficulty in accessing publications is finding the publication that will supply the information the student needs. The two aspects of this problem are the availability of human help and the indexing method applied to the publications.

Human assistance. Who is to help students locate the materials they want? Table 48, discussed in Chapter V, shows that for all strata this responsibility falls almost entirely to the director of guidance or staff, or to the coordinator of career education or staff. (The two titles sometimes designate the same function with regard to occupational information; the questionnaire listed both because some schools are familiar with the director title and others with the coordinator.) In almost 80 percent of the schools these are the staff members named as performing the accessing advising functions. Librarians also perform the function (in about 13 percent of the schools), and so do teachers to a lesser extent (about 7 percent).

We also observed in Chapter V that professional (i.e., certificated) counselors spent "a great deal" of time directing students to general and specific occupational information. In all strata almost two-thirds of the schools made that response (see Table 49). This finding is consistent with that discussed in the previous paragraph, since professional guidance counselors are almost invariably on the staff of a director or coordinator of guidance.



Cataloguing and indexing. An important aspect of making published occupational information accessible to students is the system used for cataloguing, filing, indexing, or displaying the resources. If the system is not transparent and easy to use, students have no alternatives except to abandon the search, trust to the luck of blind searching, or become wholly dependent on human assistance. Question 7 sought information on cataloguing systems. Table 53 shows the results.

It is evident from the table that schools use a wide variety of methods. The most popular among schools that have made up their own system is a simple alphabetical listing by title of the occupation. Since the same occupation may go under different names in different publications, the listing by title may cause much useful information to be overlooked. The most frequently used method for prepared systems is the DOT number. It will be remembered that the DOT was among the most popular publications. The Dewey decimal system, a standard method of classification of library materials, is the next most popular. To the extent that DOT numbers serve as a standard index for a great many resources (see Tables 10, 11, 12, and 15), one would think it would be more useful than the Dewey decimal system for cross-referring different resources to one another.

NOICC is promoting the Standard Occupational Classification (SOC) in an attempt to establish a crosswalk between various government classification systems. SOC was not even listed as an option for Question 7. The small number of "other" responses suggests that SOC--a relatively new system--has no: caught hold yet.

The question of responsibility for indexing was answered in Table 48. Responsibility falls mainly to the director of guidance or staff (55 percent, national estimate), and to a lesser extent to the coordinator of career education or staff (15 percent), or to the librarian (19 percent).

A related question is whether the school has a central index where students can locate <u>all</u> the information from various sources about an occupation or cluster of occupations (Question 8). For the most part, schools do not have a central index. The "no" responses were 64 percent for Stratum 1, 71 percent for Stratum 2, 69 percent for Stratum 3, and 70 percent for the national estimate, with a few "Fo responses." Only about 30 percent of students can "crosswalk" from resource to resource for information about an occupation by means of a central index.

Availability of publications. Arrangements to use a resource are affected by its availability. Although the survey collected information about the variety of publications that schools owned, it did not collect information about the numbers of copies. The OOH, which was the most frequently named publication, being present in at least 90 percent of the schools, was an exception. If students sought occupational information from a publication, the OOH would be the most likely place for them to look. Would there be enough copies to go around?



-160-

Question 17 asked for this information. Table 54 shows the responses for the latest edition of the OOH. (The question also asked about older editions of the OOH, but this information is not relevant to this discussion.) The strata differ considerably in the number of copies available. The modal response for Stratum 2, which is more rural, and for the national estimate, is one copy; in the other two strata it is five or more. In all three strata the runner-up is two copies. There seems to be a distinct possibility that if many students wanted to refer to the OOH all at the same time, they would have difficulty in getting their hands on it. Scheduling arrangements would have to take account of shortages.

Access to Computerized Systems

Access to the system. Question 26 asked schools that have computerized systems how students were scheduled to use it. The results are shown in Table 55. The figures are percentages of schools that said in Question 23 that there were terminals at the school. Multiple responses were allowed.

Apparently much freedom exists. The most frequently used method is by student request, employed by over 80 percent of the schools with terminals. Guidance counselors and teachers also assign students to the terminals with considerable frequency—counselors in over 70 percent of the schools (except in Stratum 2) and teachers in over 50 percent. If the response "Students are not scheduled" means that students can get on the terminal with no appointment, this arrangement exists together with the others in a few schools. "Students not scheduled" could mean that the computers are used for batch processing of student requests for information and that consequently students never interact with the computer.

Assistance at the terminal. Table 56 shows who is available to help students once they have gained physical access to the terminal. The N's are the same as for Table 55. Again, major responsibility falls on the guidance counselors; in almost 80 percent of the schools with terminals, these counselors help students. However, secretaries and "Other" (paraprofessionals, perhaps) also help students at the terminal. At only a few schools are the computer systems regarded as capable of serving without human assistance.

In Chapter VIII, which discusses the frequency with which resources are actually used, we will point out that students using the various computer systems need staff assistance more than half the time. (See Table 67.) The only exception was DISCOVER, where the percentage of usage by students unassisted was 53 percent. The need for so much help at the terminal must make management arrangements more difficult for both the staff and students for some systems.

Availability of terminals. The availability of the computer system depends on the number of terminals at the school, the extent to which they are open for use, and the extent to which they are actually used. Questions 24 and 25 sought this information.

Table 57 shows for each stratum the number of schools having various numbers of terminals. The huge preponderance have only one or two. In Stratum 1 only two schools have as many as seven or eight, and in Stratum 3 two schools have 11 or more. In six of the schools the terminals are not available at all to students. The scarcity of terminals might severely restrict the usefulness of computer systems as a resource if there is much demand on the part of students.

How often are these terminals available and used? Table 58 shows that the terminals are open for use many more hours than they are acutally used. If we multiply the midpoints of the scale intervals by the number of schools embraced by the intervals and then add all the products, we can arrive at estimates of the total number of hours the terminals were available and the total number of hours they were used. The computation shows that in Stratum 1, terminals were available in these schools for a total of 706 hours, whereas they were used 332 hours, or 47 percent of the time. The figures are comparable for the other two strata: Stratum 2, available 517 hours, used 209 hours (40 percent), Stratum 3, available 1,284 hours, used 655 hours (51 percent). Moreover, in 31 schools the terminals are apparently not used at all by students, although they may be used by others for the benefit of students.

We do not know whether a use rate of about 45 percent of available time is good or bad.

Access to Audiovisual, Microfiche, and Noncomputerized Sorting Materials

Access to the materials. Question 31 asked schools that have audiovisual microfiche, or noncomputerized sorting materials how students were scheduled to use them. The results are shown in Table 59. The figures are percentages of schools that said on Question 28 that they had occupational information on one or inother of the materials. Multiple responses were allowed.

The results are strikingly similar to what was found for computers. Student-initiated request is the most frequently used method of scheduling. Teachers play a larger role in scheduling for these materials than in scheduling for computers, probably because teachers may schedule films for use during class periods. The "students are not scheduled" response occurred less frequently (because students either have free access or no access) for these materials than was the case for computers.

Availability of materials. The numbers of filmstrip viewers, microfiche viewers, needlesorts and so on, available for student use are shown in Table 60. The data come from Questions 32, 34, and 37. It is clear that there are many more audievisual and microfiche devices than computer terminals, as shown in Table 57, and access should be correspondingly easier. There are far fewer needlesorts than audiovisual or microfiche devices, and arrangements by students might be correspondingly more difficult for this device. However, the specialized nature of the information produced by needlesorts would probably reace the demand to use them, and their absolute numbers are not a safe guide to inferences about their accessibility.



-162-

The number of hours that these devices are available for use and the number of hours they are actually used by students are shown in Table 61. As with computer terminals, most schools make their audiovisual, microfiche, and needlesorts available from four to eight hours per day on the average. The modal interval is 6.01 to 8.00 hours. Use is far less than availability. If the total number of available and use hours is computed so that use can be seen as a percentage of availability, we note that the devices are seldom used as much as 25 percent of the time that they are available. The percentages for each stratum are produced in Table 62. There is a strong presumption that students who want access to these devices are not held back because of scarcity. They are more prevalent than computer terminals are and they are free more of the time.

Access to Experiential Programs

Arrangements for access. In Chapter V we saw (Table 48) that responsibility for arranging the special programs, events, or days that make up the content of much experiential career information was mostly in the hands of the guidance professionals. The director of guidance or staff, or the coordinator of career education or staff were the responsible agents in 75 percent of the schools (nat inal estimate, but the strata were quite similar); the principal or assistant principal was responsible in 15 percent of the schools, and teachers played a small role (6 percent).

Another aspect of experiential career information is the methods used to make students aware of the experiences, simulations, and personal contacts arranged by the school. Question 46 explored this area. The results are shown in Table 63.

The table shows that a considerable variety of methods is used. Once again the professional guidance staff dominates, being the choice in over three-quarters of the schools. Direct presentations to the student body are the next most common method. Ads on radio and TV are the methods used least. Stratum 2 lags behind Strata 1 and 3 on all approaches except "No particular method."

Assistance with experiential career information. We saw in Table 48 that the supervision of exploratory work experience programs was in the hands of teachers in about 25 percent of the schools and in the hands of guidance professionals (director of guidance or staff and coordinator of career education or staff) in another 37 percent. The principal or assistant principal assumed responsibility in 7 percent. But the task was not performed at all in 20 percent of the schools, especially in those in Stratum 2.

Schools may also follow up other types of school-arranged experiences, such as simulations and personal contacts. Question 47 asked for information on this practice. The results are shown in Table 64. The table shows that the most common method is conferences with counselors (i.e., professional staff) or teachers. In about a quarter of the schools, especially in Stratum 2, there is no particular method of follow-up.



Summary

A large study could be made of the arrangements students must make to gain access to various types of career information. The data from this survey leave much of the question still shrouded in darkness. It is apparent that formal contact with career information resources is mainly the responsibility of guidance professionals—the director of career guidance or staff, or the coordinator of career education or staff. Teachers and principals also have responsibilities.

Placing students next to career information is no guarantee that they can grasp it; part of the arrangements must be to help them use it or understand it. For the most part, such assistance seems to be provided. Schools help students locate and interpret publications, use computers, and get value from work experience. Here, too, professional staff has an important role, with librarians helping with publications and teachers with the supervision of work experience.

Yet another facet of arrangements is that the career information resource be easily accessible when the student needs it. The most widely used publicacation, the OOH, is fairly available in schools in Strata 1 and 3, much less so in Stratum 2. When schools have computer terminals, the overwhelming likelihood is that they have only one or two. The picture is more favorable with regard to audiovisual devices, microfiche viewers, and needlesorts, which exist in greater numbers and which are apparently idle much of the time. Computerized systems are much more comprehensive in what they attempt than these other devices are, and difficulty of access to computers would be that much more detrimental to the user.

What is not known about "arrangements is the actual minimizing whereby students are given access to the resources and the competence of the professional staft that controls so large a portion of it. Is the process of getting on the computer or gaining access to the microfiche viewer so complicated and threatening that students are discouraged from even trying? Is someone looking over their shoulders, increasing the likelihood they will behave stereotypically? The answers to these and many other questions like them wou'd require a separate study.



Table 53
Methods of Cataloguing Resources

| | Wash I | | Stratum | | | |
|-----------|---------|--|---------|----|----|----|
| | | Method | 1 | 2 | 3 | NE |
| | | Alphabetical by title of occupation | 72 | 65 | 73 | 68 |
| O¥1 | stem | Type or level of education or training | 32 | 35 | 35 | 35 |
| 1 's | S | Related school subjects | 28 | 21 | 29 | 24 |
| school's | rouping | Interest fields | 33 | 32 | 37 | 34 |
| The s | gron | Type of industry or employer | 32 | 27 | 33 | 30 |
| [1 | | Other | 5 | 5 | 7 | 6 |
| | | Dewey decimal system | 35 | 31 | 28 | 31 |
| | | D.O.T. numbers | 48 | 49 | 56 | 51 |
| | | Work or worker trait groups | 8 | 8 | 10 | 9 |
| | SE | Alphabetized D.O.T. subject headings | 20 | 15 | 24 | 18 |
| | ystems | SRA job-family classifications | 23 | 19 | 21 | 20 |
| | ared s | Categories used by vocational interest inventories | 14 | 11 | 14 | 12 |
| | Prep | U.S.O.E. categories | , 9 | 7 | 13 | 9 |
| | | Standard industrial classification | 4 | 3 | 4 | 3 |
| | i | U.S. Gensus classifications | 4 | 1 | 3 | 2 |
| | | Other | 6 | 5 | 6 | 6 |

All figures are percentages of schools in the stratum. Totals sum to more than 100 because schools may use more than one system.



Table 54

Number of the Latest Edition of the Occupational
Outleast Handbook at the School

| Number of copies available | | Stiatum | | | | | |
|----------------------------|------------|---------|--------------|----------------------|--|--|--|
| | N = 1540 | N = 668 | 3 N = 686 | National estimate | | | |
| None | 4 a | 8 | 2 | 6 | | | |
| One | 15 | 27 | 15 | 22 | | | |
| Two | 19 | 19 | 18 | 19 | | | |
| Three | 8 | 10 | *** | 10 | | | |
| Four | 7 | 5 | 9 | 6 | | | |
| Five or more | 29 | 10 | 32 | 19 | | | |

 $^{^{\}mathbf{a}}$ Figures are percentages of th. schools in the stratum.



Table 55

Methods of Coneduling Students to Use
Computer Terminals

| | Stratum | | | | | |
|--------------------------------|----------------------|-------------|--------------|--|--|--|
| Method of scheduling | N = 141 ^a | 2 N = 96 | 3 N = 233 | | | |
| Student initiated request | 85 | 82 | 86 | | | |
| Assigned by teacher | 55 | 58 | 51 | | | |
| Assigned by guidance counselor | 74 | 64 | 72 | | | |
| Other | 22 | 18 | 19 | | | |
| Students are not scheduled | 16 | 14 | 11 | | | |

 $^{^{}a}$ N = number of schools in the stratum that had terminals at the school All figures are percents.



Table 56
School Staff Who Help Students Use the Computer

| | Stratum | | | | |
|----------------------------------|---------------|-------------|--------------|--|--|
| Person who helps | $N = 141^{a}$ | 2 N = 96 | 3 N = 233 | | |
| Guidance counselor | 79 | 79 | 78 | | |
| Secretary | 25 | 31 | 33 | | |
| Other | 57 | 56 | 64 | | |
| Students can use it without help | 18 | 34 | 21 | | |

 $^{^{}a}{\rm N}$ = number of schools in the stratum that had terminals at the schools. All figures are percents.



Table 57

Number of Terminals Available for Student Use

| | | Stratum | |
|-------------------------------|-----------------------|---------|-----|
| Number of terminals available | 1 | 2 | 3 |
| ll or more | 0 ^{a} | 0 | 2 |
| 9 - 10 | 0 | 0 | 0 |
| 7 ~ 8 | 2 | 0 | 3 |
| 5 - 6 | 3 | 0 | 5 |
| 3 - 4 | 9 | 5 | 18 |
| 1 - 2 | 120 | 90 | 200 |
| None | 5 | 0 | 1 |

 $^{^{\}rm a}$ Number of schools that have the number of terminals designated by the figure in the row



Table 58

Number of Hours Terminals Open for Use and Used

| | | Stratum | | | | | |
|---------------------------------|----------------|-----------|----------------|------|----------------|------|--|
| | | 1 | 2 | | 3 | | |
| Average number of hours per day | Avail- able | Used | Avail- able | Used | Avail- able | Used | |
| More than 10 | 3 ^a | 0 | 5 | 0 | 8 | 0 | |
| 8.01-10.00 | 1 | 0 | 5 | 1 | 9 | 0 | |
| 6.01-8.00 | 55 | 13 | 42 | 5 | 107 | 26 | |
| 4.01-6.00 | 49 | 21 | 13 | 12 | 55 | 52 | |
| 2.01-4.00 | 10 | 32 | 17 | 21 | 27 | 48 | |
| 0.01-2.00 | 7 | 40 | 12 | 42 | 18 | 69 | |
| 0.00 | 10 | i , 15 | , 0 | 5 | 3 | 11 | |

^aAll figures are the number of schools reporting availability or use of a terminal for the number of hours per day shown by the corresponding interval in the first column.



Table 59

Methods of Scheduling Students to Use Audiovisual,
Microfiche, or Noncomputerized Sorting Materials

| | | Stratum | |
|--------------------------------|-----------------------|--------------|---------|
| Method of scheduling | $\frac{1}{N = 361^a}$ | 2 N = 465 | N = 501 |
| Student-initiated request | 85 | 84 | 89 |
| Assigned by teacher | 71 | 66 | 71 |
| Assigned by guidance counselor | 67 | 68 | 71 |
| Other | 23 | 15 | 21 |
| Students are not scheduled | 13 | 12 | 10 |

 $^{^{}a}N$ = number of schools in the stratum that had occupational information on at least one of these materials. All figures are percents.



1 .

Table 60

Number of Audiovisual Devices, Microfiche Viewers, and Sets of Needlesorts Available for Student Use

| | Device | | | | | | | | | | | |
|---------------|--------|------------------------------|-----|-----|---|---------------------|----|---------|-----|--|--|--|
| Number of | C | lm view assette layers | | v | crofich iewers, eader- rinters | Sets of needlesorts | | | | | | |
| devices | | Stratum | | 4 | Stratum | | | Stratum | | | | |
| vailable | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | | | |
| ll or more | 77ª | 56 | 78 | 2 | 2 | 2 | 1 | 1 | 4 | | | |
| 9-10 | 37 | 36 | 32 | 0 | 1 | 5 | 2 | 1 | 0 | | | |
| 7-8 | 21 | 17 | 22 | 4 | 0 | 6 | 0 | 0 | 0 | | | |
| 5-6 | 61 | 76 | 93 | 13 | 6 | 12 | 6 | 6 | 4 | | | |
| 3-4 | 74 | 105 | 116 | 39 | 26 | 68 | 2 | 8 | 23 | | | |
| 1-2 | 62 | 127 | 119 | 179 | 261 | 245 | 58 | 122 | 106 | | | |



^aAll figures are the number of schools reporting that they have the number of devices shown in the first column.

Table 61

Number of Hours of Availability and Actual Use by Students of Audiovisual Devices, Microfiche Viewers, and Needlesorts

| | I | | | | | | | | Dev | ices | | | | | | | | |
|-------------------|----------|-------|---------|----------------|-------|-----|-----|-------|-----|-------|-------|-----|----|-------|-------------|----------|-------|----------|
| | <u> </u> | | | ewers playe | | | | | | e vie | | | | | Needl | esort | 8 | |
| Average number of | 7 | AV | | Hrs | . use | | Hrs | . ava | | Hrs | . use | | | . ava | | | . use | |
| hours per day | l St | trati | מונ מונ | S | tratu | m . | S | tratu | | S | ratu | n. | S1 | tratu | | <u> </u> | tratu | <u> </u> |
| | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 1 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| More than 10 | 1ª | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 8.01-10,00 | 6 | 3 | 13 | 0 | 0 | 1 | 5 | 4 | 12 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 |
| 6.01-8.00 | 152 | 198 | 258 | 9 | 5 | 11 | 127 | 160 | 194 | 7 | 7 | 9 | 31 | 74 | 78 | 1 | 0 | 2 |
| 4.01-6.00 | 148 | 166 | 156 | 32 | 12 | 18 | 87 | 108 | 115 | 20 | 7 | 20 | 33 | 45 | 44 | 4 | 4 | 5 |
| 2.01-4.00 | 19 | 26 | 18 | 42 | 38 | 55 | 8 | 11 | 8 | 30 | 32 | 46 | 3 | 9 | 4 | 6 | 11 | 15 |
| 0.01-2.00 | 10 | 21 | 14 | 173 | 267 | 301 | 2 | 8 | 6 | 113 | 195 | 207 | 0 | 4 | 5 | 43 | 94 | 83 |
| 0.00 | 7 | 12 | 7 | 36 | 58 | 42 | 31 | 25 | 28 | 57 | 45 | 61 | 50 | 50 | 41 | 55 | 64 | 64 |

^aAll figures are the number of schools reporting availability or use of a device for the number of hours per day shown by the corresponding interval in the first column.







Table 62 Student Use as a Percentage of Availability for Audiovisual Devices, Microfiche Viewers, and Sets of Needlesorts

| | | Device | | | | | | | | | | | | |
|---------|---------------------------------|------------------------|-------------------------|---------------------------------|-----------------------|-------------------------|---------------------------------|-----------------------|-------------------------|--|--|--|--|--|
| | 1 | lm viewe: ette plaj | , i | | fiche vi der/prin | | Needlesorts | | | | | | | |
| Stratum | Total hrs. avail- able | Total hrs. used | Usage (per- cent) | Total hrs. avail- able | Total hrs. used | Usage (per- cent) | Total hrs. avail- able | Total hrs. used | Usage (per- cent) | | | | | |
| 1 | 1935 | 522 | 27 | 1395 | 352 | 25 | 391 | 88 | 23 | | | | | |
| 2 | 2362 | 476 | 20 | 1737 | 375 | 22 | 793 | 147 | 19 | | | | | |
| 3 | 2811 | 642 | 23 | 2101 | 508 | 24 | 820 | 167 | 20 | | | | | |
| | | <u> </u> | <u> </u> | | _ | 1 | | | | | | | | |



Table 63

Methods of Informing Students About SchoolArranged Experiences

| | | Strat | ım . | |
|-------------------------------|-----------------|--------------|---------|----------------------|
| Method | 1 N = 540 | 2 N = 668 | N = 686 | National estimate |
| Listed in course offerings | 45 ^a | 35 | 50 | 40 |
| Presentation to student body | 64 | 47 | 59 | 52 |
| Presentations to parents | 28 | 15 | 29 | 21 |
| Ads on radio and | 10 | 8 | 4 | 7 |
| Teachers recommend students | 42 | 27 | 34 | 30 |
| Conferences with counselors | 80 | 72 | 82 | 76 |
| Other | 19 | 12 | 24 | 16 |
| No particular method | 9 | 15 | 7 | 12 |

^aAll figures are percentages of schools in the stratum.



Table 64

Methods of Following up Students Who Participate in School-Arranged Experiences

| | | Str | tum | |
|---------------------------------------|-----------------|--------------|--------------|----------------------|
| Method of follow up | n = 540 | 2 N = 668 | 3 N = 686 | National estimate |
| Conferences with counselor or teacher | 61 ^a | 53 | 61 | 56 |
| Group discussions | 43 | 31 | 36 | 34 |
| Test or question- naire | 30 | 20 | 26 | 23 |
| Oral student report | 37 | 24 | 30 | 27 |
| Written student report | 34 | 25 | 36 | 29 |
| Other | 5 | 4 | 7 | 5 |
| No particular method | 21 | 28 | 23 | 26 |

^aAll figures are percentages of schools in the stratum.



CHAPTER VII

QUESTION B4

Question b4 is "What types of schools have what management arrangements for career information resources?"

School types, for the purposes of this analysis, have already been defined and discussed for Question a3 (Chapter IV). Unfortunately, the characteristics of management arrangements are not definable in a similar fashion, and it was impossible to analyze the data sufficiently to yield unambiguous results. Therefore this report leaves the question unanswered except for what can be inferred from the previous chapter.

We should point out, however, that arrangements, as construed in that chapter, were quite consistent for all resources and all strata. Arrangements were mostly, but by no means exclusively, in the hands of the professional guidance staff except for resources involving school-arranged experiences, where reachers played a larger part. The uniformity across all strata suggests that management arrangements probably do not differ much by school type except, perhaps, for small numbers of schools.



CHAPTER VIII

RESEARCH QUESTION CI

Question Cl is "How often are resources used by students? Does frequency of use vary by type of resource?" These two parts of the question overlap and will be answered together.

Data for the answers come primarily from the student questionnaire. Readers are reminded that the students may not be a representative sample of all students in the sample frame because some of the schools failed to select subjects randomly. The extent of nonrandom selection is not known, nor is the direction or amount of bias introduced by it. Therefore no attempt was made to derive national estimates from the student data. They are simply treated as the responses of a large number of students (4,882), with over 1,500 in each stratum.

The N's vary from question to question because students who were attending schools where a resource was unavailable were instructed to ignore questions about how often they used it. Some students did not branch properly. That is, they indicated that they had never used a resource or that the school did not have it, but they answered questions about it anyway. For this report the responses of such students have been eliminated from analysis of the questions they should not have answered.

Frequency of Use

<u>Publications</u>. Question 13 asked students how frequently they had used reference books; magazines; pamphlets, briefs, or kits; and reports of former students. Table 65 shows the results. The figures are percentages of students in each stratum who branched properly to Question 13.

The results are remarkably similar within each stratum. The most frequently used kind of publication is reference books. Some of this popularity is no doubt due to prevalence of the Occupational Outlook Handbook, which appears in over 90 percent of the schools. Well over 40 percent of respondents say they have used a reference book at least a few times. The next most popular publication is magazines, used at least a few times by about 40 percent of students. Pamphlets, briefs, and kits are used even less; about 35 percent report using them a few times. The strata are quite similar on these three types of publications. The "Never" responses range between 20 and 30 percent and occur least frequently for reference books and most frequently for pamphlets, briefs, and kits. Stratum 3 lags behind the other two strata on frequency of use.

The most striking feature—bout reports of former students is the "Never" response. In Stratum 1 it is 04 percent, and in the other two it is 76. Only 15 percent of students in Stratum 1, 10 in Stratum 2, and 9 in Stratum 3 have read these reports a few times. Although the data on use of reports



are striking, they are not surprising. In the discussion of Table 48 in Chapter V it was noted that in 43 percent of the schools (national estimate) the task was not performed of making data on former students available to current ones. Also Item B13, write-ups by former students, are listed as available by only 3 percent of the schools.

Computers. Question 20 asked for the same information about computers that Question 13 asked about publications. The results are shown in Table 66. It may be recalled that fewer than 25 percent of the schools (national estimate) said that they had access to computer terminals or printers for retrieving occupational information, and only 21 percent had them actually at the school. The N's are consequently much smaller for computers than for publications.

Table 66 shows that in all strata use of computers by students who are aware of their presence is less than use of publications by students who are aware of them. Use is heaviest in Stratum 3 (where 34 percent of the schools have terminals, as opposed to 26 percent in Stratum 1 and 14 percent in Stratum 2), but 44 percent of the students in Stratum 3 who could use the computer have never used it. In Stratum 1 it is 51 percent and in Stratum 2 it is 52 percent.

One possible explanation for this discrepancy is that some computer systems seem to be more difficult to use than others with the result that students use them less or use them indirectly through batch processing (that is, they fill out forms showing what they want to know and get the answer the next day) or use them only with the assistance of someone who sits with them at the terminal. In a study of computer use in guidance in New York City, Heller and Chitayat (1975) reported that students were unable to master the Student Guides that explain how to interact with the Guidance Information System (GIS) they were using. Someone had to be with them at the terminal or had to process their requests for information. GIS was one of the two computer systems named most frequently in the study (by 11.16 percent of the schools in the national estimate, versus 11.74 percent for "Your state system"; no other system was named by as many as 2 percent of the schools).

We may explore this matter further by looking at the way schools with different systems responded to Question 21 of the school questionnaire, which asked for an estimate of the percentage of the system usage by students unassisted at the terminal, by students with staff assistance, and by staff to gather information for later transmittal to students. The responses to Question 21 were analyzed for schools in all strata that had one and only one of the computer systems categorized as items GI-G8 of Question 11. Schools with more than one system were excluded because responses would be confounded.

The results of the analysis are shown in Table 67. The N's for some of the systems are very small, and CHOICES does not appear at all because only one school in Stratum 2 had it. The percentage figures in the table should be treated with caution. They are based on the estimates of the person who filled out the questionnaire, not on hard data. Also, the number of "No responses" varied from item to item.



-182-

Table 67 shows that there is indeed some variation in the systems' capability for serving students without the assistance of a staff member. In the 10 schools that have DISCOVER, 53.2 percent of usage was by students unassisted; for COIN the unassisted usage was only 23.4 percent, and for GIS it was 25.5. For DISCOVER, 18 percent of usage was by students with the assistance of a staff member; for COIN and GIS, the figures were 37.4 percent and 38.5 percent. DISCOVER was rarely used for the students' benefit without the physical presence of the student -- i.e. by a staff member. COIN was used this way over 30 percent of the time, and GIS 28.8 percent of the time. CVIS, which does not contain as much occupational information as the other systems, and "Your state system" (which might have been based on the Oregon CIS, on GIS, or on some system not specified in this report), ranked between DISCOVER and COIN or GIS in its capability to run without staff assistance.

Frequency of use of a resource would undoubtedly be affected by the convenience of access. If students have to go through layers of staff to get information from the computer, which is a most versatile resource because it can match occupational characteristics with the students' specifications, use would probably be inhibited. The students' behavior at the terminal might also be affected if they were conscious of having to transmit their requests through a staff member. Table 66 showed that nearly 50 percent of the students who knew a computer system was available had never used it. DISCOVER is one of the most interactive systems examined for this study because it contains prompts that enable the students to proceed without having to consult a book to find out what message the computer is waiting for. This may be a desirable feature in computer-based guidance.

Microfiche. Question 26 asked students how often they had sought occupational information from a microfiche. Again, the N's are quite small; fewer than 40 percent of the schools (national estimate) indicated that they used microforms, and presumably even fewer used these resources in the form of microfiche. Table 68 shows the students' responses to Question 26.

The strata differ very little on this question. In each stratum 50 percent or more of students who believed that occupational information was available to them on microfiche had never actually had recourse to it. But if they used this source once, they were likely to use it again, for the sum of "A few times" and "Many times" is greater than the frequency for "Once" in all strata.

Sorting cards. Table 69 shows for sorting cards (needlesorts and keysorts) the information about frequency of use comparable to that for publications, computers, and microfiche. The N's now become quite small. We have already noted that sorting materials are among the least common categories of career information resource.

Although needlesorts are not so common, where they are available they seem to be used with greater frequency than computers or microfiche without reaching the level of use of publications. The "Never" response ranges from 32 in Stratum



-183-

1 to 44 in Stratum 3. Except in Stratum 3, students who have used needlesorts once return.

It should be borne in mind that, compared with publications, computers, and microfiche, needlesorts do not contain much factual information about occupations. Their primary function is to cluster occupations on the basis of specifications imposed by the student. It is perhaps this ability to "personalize" information that makes sorting cards more popular among their users than microfiche are among its users. Needlesorts are usually used in conjunction with a publication that contains detailed information.

Counselors. All students in each stratum were asked (Q 40) how often they had talked with counselors about various matters, including occupations, preparing for occupations, and job seeking. The responses are shown in Table 70.

It is apparent that the subject of high school courses far exceeds any other matter brought to a counselor. (Of course, this subject is not unrelated to choice of occupation.) The next most common subject for talks with a counselor is preparing for an occupation. Talking about occupations themselves occurs at least once in a little less than half the cases, and about where to get a job occurs at least once in more than half the cases.

As occupational resources counselors are apparently not used as much as publications. They are, on the other hand, important adjuncts to the career decision—making process. We have already seen in the tabulation of responses to Question 4 of the school questionnaire that counselors are regarded as "directing" students "A great deal" by 60 percent or more of the schools (national estimate) in each of the following areas: general occupational information, specific occupational information, answering questions about occupations, and assisting with career decisions. Moreover, 50 percent of the schools see counselors as directing students "A great deal" in interpreting occupational information. It seems clear that counselors are an important resource, but it is hard to tell how frequently they are used in comparison with nonhuman resources because their function is different.

Other occupational information resources. The relative frequency of use of other sources of occupational information cannot be determined with any accuracy because they are not the sort of resource that students use more than once or that are used to get general occupational information. Data were collected, however, on whether students had been exposed to them at all. The results are shown in Table 71.

It is apparent that students are exposed to films and special courses that concern occupational information more frequently than to the other resources. Over 60 percent of the students have seen a film or videotape, and between 40 and 50 percent have attended special courses on occupational information. The least used resources are those that put the student right on the job site: work-study,



-184-

which finds a place in about 15 percent of the schools, and job shidowing (i.e., following a worker as he or she works) in about 25 percent.

Summary

The answer to research question Cl is that students use the various resources with different frequencies and that use does seem to vary with type of resource.

There are some differences in the frequency with which students in different strata use the resources. (a) Students in Stratum 1 use reports from former students more frequently than do students in the other two strata -- 37 percent have used them at least once, versus 22 percent in Stratum 2 and 20 percent in Stratum 3. (b) Computers are more prevalent in Stratum 3 and are used at least once or more by a greater proportion of students who are aware of them -- 56 percent in Stratum 3, versus 48 percent in Stratum 2 and 47 percent in Stratum 1. (c) Sorting cards are used proportionately more frequently in Stratum 1 than in the other two strata; they are used at least once by 68 percent of the students who know about them, as compared with 61 percent of the students in Stratum 2 and 55 percent in Stratum 3. (d) Talking with a counselor about where to get a job occurs most frequently in Stratum 1; 46 percent of the students in that stratum have discussed the subject at least once, as compared with 40 percent in Stratum 2 and 35 percent in Stratum 3. (e) Students in Stratum 3 participate least in each of the categories of experiential activities.

Are these variations associated with type of school? Such a relationship would be hard to pin down from our data because, even though there are differences, uniformity is more the rule than difference. We saw in Chapter IV that the most common school types in Stratum I were characterized by an enrollment of more than 750, more than four FTE counselors, more than half the students in academic programs, and the presence of a head of guidance. The most common types in Stratum 2 were characterized by an enrollment of less than 750, and in Stratum 3 enrollment was not a pronounced characteristic of the most common types. It may be, then, that schools with large enrollments have greater usage of reports of former students, greater usage of noncomputerized sorts, and more frequent talks with guidance counselors about where to get a job. It is just as likely, however, that the nature of the stratum, not school type as defined in Chapter IV, is the major determinant. Stratum I is center city high poverty, where unemployment far exceeds the national average. Students in this environment would be more likely to keep their ears to the ground -- to want feedback about jobs from former students and counselors. Conclusions must be speculative in the absence of more precise data.

The most frequently used formal resources available at the school are publications, and the most frequently used among publications are reference books, probably because of the prevalence of the OOH. A larger variety of publications exist than any other resource, more schools have them, and greater numbers of students use them. That is, opportunities for use are much greater.



21,

Use of computers, microfiche, and sorting cards is less, whether use is regarded as the percentage of potential users or as the absolute number of users. Only about 21 percent of the schools have terminals, and, except in Stratum 3, less than half the students who knew about the computer system had used it. The situation is cimilar for microfiche — the number of students using them is small, and only about half the students who know about them have used them. A somewhat larger proportion of students who know about sorting cards use them, but the total numbers are small. The counselors' role as a career information resource is most pronounced in helping students select high school courses. Students talk with counselors far less frequently about occupations, preparing for occupations, or getting a job.

Over 60 percent of students in each stratum had seen a film or video-tape about occupations. Over 40 percent had taken special courses and had met with employed workers. Other activities of an experiential sort occurred less frequently, but none fell below 12 percent (participants in work study, Stratum 3). These resources are quite different from publications, computers, microfiche, and so on, and comparison on the basis of frequency of use may not be so illuminating as comparisons on purpose of use.



-186-

Table 65
Frequency of Use of Various Publications by Students

| | St | ratum | 1 N - | Stratum 1 N = 1374 | | | | Stratum 2 N = 1555 | | | | Stratum 3 N = 1729 | | | |
|--|-----------------|-------|-------|--------------------|-------|------|----------------|--------------------|-------|------|----------------|--------------------|--|--|--|
| Publication | Never | Once | A few | Many times | Never | Once | A few times | Many times | Never | Once | A few times | Many times | | | |
| Reference books | 21 ^a | 22 | 46 | 8 | 22 | 22 | 47 | 7 | 23 | 24 | 44 | 6 | | | |
| Magazines about occupations | 24 | 22 | 40 | 11 | 29 | 20 | 42 | 7 | 31 | 22 | 38 | 6 | | | |
| Pamphlets, briefs, or kits about occupations | 32 | 20 | 35 | 9 | 34 | 20 | 36 | 7 | 34 | 21 | 34 | 7 | | | |
| Reports about their jobs by former students | 64 | 12 | 15 | 5 | 76 | 10 | 10 | 2 | 76 | 9 | 9 | 2 | | | |



All figures are percentages of the students in the stratum who properly answered Question 13. Figures do not add to 100 because "No responses" are not shown in the table.

Table 66
Frequency of Use of Computers

| | 1 | Frequency o | f Use | |
|---------------------|-----------------|-------------|----------------|---------------|
| | Never | Once | A few times | Many times |
| Stratum 1 (N = 404) | 51 ^a | 21 | 21 | 5 |
| Stratum 2 (N = 303) | 52 | 25 | 17 | 6 |
| Stratum 3 (N = 525) | 44 | 28 | 22 | 6 |

^{*}Frequencies are the percentages of the students in the stratum who indicated that at their school information was available from a computer. Figures may not total 100 because "No responses" are not shown in the table.



211

Table 67

Mean Percentage of Usage of Computer Systems Devoted to Students Without Assistance,
Students with Assistance, and Staff for Transmittal to Students

| | CC | IN | С | VIS | DIS | SCO VER | G | IS | Sta Sys | te tem | Çou Sys | nty t em | Oth | er |
|------------------------------|----|------------------|----|------|-----|----------------|-----|------|------------|-----------|------------|--------------------|-----|------|
| Hode | N | ∪se ^a | N | Use | N | Use | N | Use | N | Use | И | Use | N | Use |
| Student unassisted | 15 | 23.4 | 22 | 40.5 | 10 | 53.2 | 158 | 25.5 | 111 | 41.7 | 15 | 33.4 | 9 | 40.1 |
| Student assisted | 15 | 37.4 | 23 | 30.5 | 10 | 18.0 | 165 | 38.5 | 122 | 38.8 | 16 | 25.1 | 9 | 53.7 |
| Staff to transmit to student | 15 | 30.9 | 16 | 23.3 | 9 | 7.8 | 155 | 28.8 | 102 | 18.6 | 16 | 37.9 | 12 | 33.7 |

^{*}Mean percentage of usage shown in Question 21 (respondent's estimate).

Figures do not add to 100 because number of "No response" varied from item to item.



Table 68
Frequency of Use of Microfiche

| | | Frequency of Use | | | | | | | | |
|---------------------|-----------------|------------------|----------------|---------------|--|--|--|--|--|--|
| | Never | Once | A few times | Many times | | | | | | |
| Stratum 1 (N = 407) | 50 & | 20 | 26 | 3 | | | | | | |
| Stratum 2 (N = 358) | 54 | 20 | 22 | 3 | | | | | | |
| Stratum 3 (N = 536) | 50 | 24 | 21 | 5 | | | | | | |

Frequencies are the percentages of the students in the stratum who indicated that at their school information was available on microfiche. Figures may not total 100 because "No responses" are not shown in the table.



2. ,

Table 69
Frequency of Use of Sorting Cards

| | Frequency of Use | | | | | | | | | |
|---------------------|------------------|-------|----------------|---------------|--|--|--|--|--|--|
| | Never | Onc e | A few times | Many times | | | | | | |
| Stratum 1 (N = 323) | 32 a | 26 | 35 | 7 | | | | | | |
| Stratum 2 (N = 360) | 39 | 26 | 31 | 4 | | | | | | |
| Stratum 3 (N = 394) | 44 | 28 | 23 | 4 | | | | | | |

Frequencies are the percentage of the students in the stratum who indicated that at their school information was available from sorting cards. Figures may not total 100 because "No responses" are not shown in the table.



Table 70

Frequency of Talks with Counselors About Various Subjects

| | Stra | tum l | N = 15 | 98 | Stra | tum 2 | N = 15 | 55 | Stra | tum 3 | N = 17 | 29 |
|--|-------|-------|--------|------|-------|-------|--------|---------------|-------|-------|----------------|---------------|
| Activity of counselor | Never | Once | A few | Many | Never | Once | A few | Many times | Never | Once | A few times | Many times |
| Talked about high school courses | 17 | 17 | 41 | 74 | 18 | 18 | 43 | 20 | 15 | 16 | 45 | 22 |
| Talked about occupations | 47 | 18 | 25 | 8 | 46 | 17 | 30 | 6 | 47 | 18 | 28 | 6 |
| Talked about preparing for an occupation | 37 | 17 | 30 | 14 | 38 | 18 | 33 | 9 | 39 | 17 | 32 | 10 |
| Talked about where to get a job | 51 | 15 | 22 | 9 | 59 | 15 | 20 | 5 | 63 | 13 | 17 | 5 |
| Talked about attendance or discipline | 73 | 11 | 11 | 3 | 82 | 7 | 7 | 2 | 75 | 10 | 11 | 3 |
| Talked about personal problems | 76 | 10 | 8 | 3 | 81 | 8 | 7 | 2 | 78 | 9 | 9 | 3 |

All figures are percentages of responding students in the stratum. Figures may not total 100 because "No responses" are not shown in the table.



212

Table 71

Number and Percentage of Students Who
Have Participated in Experiential Activities

| | | tum 1 1598) | | tum 2 1555) | Stratum 3 (N = 1729) | | | |
|--------------------------------|------|---------------------------------|-------------|---------------------------------|-------------------------|---------------------------------|--|--|
| Type or resource | N | Percent of "Yes" response | N N | Percent of "Yes" response | N | Percent of "Yes" response | | |
| Film or videotape | 1056 | 66 | 1063 | 68 | 1060 | 61 | | |
| Simulation | 424 | 27 | 353 | 23 | 380 | 22 | | |
| Special course | 804 | 50 | 743 | 48 | 707 | 41 | | |
| Gone to a career day | 700 | 44 | 58 9 | 38 | 615 | 36 | | |
| Participated in work- study | 260 | 16 | 215 | 14 | 213 | 12 | | |
| Tour of a business | 621 | 39 | 660 | 42 | 578 | 33 | | |
| Takes part in job shadowing | 420 | 26 | 420 | 27 | 393 | 23 | | |
| Met with former students | 481 | 36 | 454 | 29 | 419 | 24 | | |
| Met with employed workers | 778 | 49 | 733 | 47 | 686 | 40 | | |



CHAPTER IX

RESEARCH QUESTION C2

Question C2 is "how often are resources used by a student?" Does frequency of use differ for different categories of students?" There is obvious overlap with Question C1, discussed in the previous chapter, and the first part of the question was answered there: Different school resources are used with different frequencies, the most common being reference books, magazines, pamphlets among the publications; and film or videotape among experiential activities. In this chapter it will be convenient to draw mainly on the answers to Question 48, which asked students to show where they got the information about the occupation that, in Question 46, they had said they were thinking of entering. Responses to Question 48 were not limited to school resources, and therefore this chapter discusses kinds of resources that have not been considered before in this report.

Designation of Types

For the purpose of arriving at types, students were classified in either of two groups on the basis of six variables: (a) 10th and 11th grade versus 12th grade; (b) academic versus nonacademic; (c) high reading ability (upper middle fifth or above) versus not high as determined by self-assessment; (d) plans for going to college versus no plans for college; (e) sex; (f) white versus nonwhite. Consequently, 64 (26) types are possible. As with school types, 25 combinations accounted for most of the students.

Responses to the 37 possible sources of information listed for Question 48 were then analyzed to see what characteristics of a type appeared to be associated with each source. In reviewing the findings, the reader should bear in mind that the research question asks whether <u>frequency</u> of use varies by student type. The most frequently used resources named in Question 48 are parents or relatives (Item 7); friends (Items 5 and 8); teachers (Item 1); employees (Item 9), counselors (Item 3); books, magazines, pamphlets, reports (Item 12); and films (Item 13). The above listing is not necessarily in order of frequency, since the relative frequency of use is almost impossible to determine.

Type by Number of Resources Checked

The number of students marking any particular source of information will depend, to some extent, on the number marking many sources. For example, if students of type A tend to mark a disproportionately large number of resources, then they are more likely to mark resource \underline{n} than are students of other types.

The first analysis, therefore, looked at the mean number of resources checked by each of the 25 most common student types. Those students checking the largest number of resources (slightly more than 10, on the average) can be characterized as 12th grade white females with high reading ability who plan to go to college but who are in a nonacademic high school program. Those students checking the least number of resources (slightly more than 6, on the average) tended to be 10th or 11th grade white males with low reading ability who plan to



210

go to college but are in a nonacademic program. In general, 12th graders checked more resources than did 10th and 11th graders. There was no pattern by academic versus nonacademic high school program. Only in the extremes was there a pattern by reading ability—those claiming the highest reading ability checking the most resources. No pattern held for plans after graduation or for race. A definite sex pattern did emerge, with females tending to mark more resources.

There was remarkable consistency across all student types in the sources used most frequently and least frequently. Of the 25 most common student types, 17 marked source 7 (parents or other relatives) most often. For instance, 86 percent of the 10th and 11th grade white high reading ability females not planning to go to college marked that source. The other most frequently marked source was number 12 (books, magazines, pamphlets, and reports). Eight of the 25 student types used this source the most frequently. These eight did not differ in any significant way from the other 17 except that they included a slightly greater proportion of nonwhites.

Those sources checked least often were 3, 10, 14, and 19: principals, employment service representatives, microfiche, and the state employment office. There was no particular pattern of student characteristics associated with the source least used.

The second analysis examined the percentage of students of each type checking each specific resource.

Source 1: Teachers

The greatest percentage of students indicating that they used teachers as a resource were 12th grade white females with high reading ability who plan to attend college but are not in an academic program. Again, this is the same group who checked the greatest number of resources. Of this group, 74 percent checked "teachers."

The lowest percentage (30 percent) of students using teachers as a resource were also the same as those using fewest resources—10th or 11th grade white males with low reading ability who plan to go to college but are in a nonacademic program.

In general, students who used teachers tended to be white females with high reading ability. Lowest were white males with low reading ability.

Source 2: Counselors

The pattern of students using counselors is somewhat different. The strongest pattern is in reading ability with the highest ability students using counselors the most. There is a tendency for those in an academic program to use counselors more than those in other programs.

The percentage checking counselors as a source ranged from 20 percent to 57 percent, with the lowest being 10th and 11th grade white males with high reading ability in a nonacademic program and not planning to go to college. The



-196-

greatest proportion of students using counselors were again 12th grade white females with high reading ability planning to go to college.

Source 3: Principal or Assistant

No pattern emerges for this resource. Few students checked this category. The highest number was 6 percent of the 10/11th grade nonwhite females in a nonacademic program with low reading ability and not planning to go to college.

Source 4: Librarian

Marking this source were 24 percent of the 10/11th grade nonwhite males with high reading ability in an academic program and planning to go to college. The lowest group (5 percent) was 12th grade white males with high reading ability in a nonacademic program and not planning college.

The most pronounced pattern was that nonwhites tended to use the library as a source more often than whites. There was a very slight tendency for women to use it more than men and for seniors to use it less than younger students.

Source 5: Friends

No obvious pattern emerged. This source is used so commonly that a breakdow by distinctive types would be unlikely.

Source 6: Someone Else at School

Again, no pattern emerged. Only about 12 percent of the students checked this response.

Source 7: Parents/Relatives

There was a pronounced tendency for those in an academic program to use parents and relatives frequently as a resource. Of the 10/11th grade white females with high reading ability in an academic program and planning to go to college, 86 percent checked this source. Only 53 percent of the 12th grade nonacademic high reading ability white females not planning college arked parents and relatives.

In addition, white students tend to use their parents more often than do nonwhite students.

These results are somewhat expected. So many students turn to this resource that one would not expect responses to be classifiable by types.



Source 8: Friends Out of School

Twelfth graders are slightly more inclined to talk with friends outside of school than are younger students. And white students, particularly those not planning to go to college, are also likely to talk with friends outside of school. Neither of these patterns is very pronounced, however.

Source 9: Someone in Line of Work

The most clear-cut pattern shows 12th grade white students, particularly college-bound females, to be more likely to use as a resource someone who is in a line of work that interests them. College-bound white males, by contrast, are far less likely to do so. On the other hand, white students of either sex who are not college bound are less likely to use such a person as a resource. Females planning to go to college are more likely to use them than college-bound white males. Of the 12th grade white females in an academic program and planning to go to college 70 percent use a person in their prospective line of work. Only 33 percent of the 10/11th grade white male college-bound students do this. The table below shows the most common relationships:

High relationship: Medium relationship: Low relationship: college-bound, white, female noncollege-bound, white, either sex college-bound, white, male

Source 10: Employment Service

This source is not often checked. The highest percentage checking it (8.6 percent) was 10/11th grade nonwhite females with low reading ability in a non-academic program and not planning to go to collage. In general, nonwhites checked it more than whites, and females more than males.

Source 11: Someone Else Outside School

fenth and eleventh graders were less likely to use this resource than twelfth graders. No other pattern was apparent.

Source 12: Books, Magazines, Pamphlets, Reports

Whites use these resources less than do nonwhites. Also, males use them less than females do.

The highest incidence of use was 79 percent from 10/11th grade nonwhite males of high reading ability in an academic program and planning to go to college.

The lowest incidence was 10/11th grade white males of low reading ability in a nonacademic program but planning to go to college.



-198-

Source 15. Films, Tapes, Cassettes

Several patterns are found, as follows:

- (a) Whites use these resources less than nonwhites.
- (b) Females use them more than males.
- (c) College-bound students use them less than noncollege-bound.
- (d) Students in an academic program use them less than nonacademic, students.

Highest incidence of use was 27 percent among 10/11th grade nonwhite females with low reading ability in a nonacademic program and not college bound. Lowest was 11 percent among 12th grade white females with high reading ability planning to go to college, but not in an academic program.

Source 14: Microfiche

No strong pattern became evident. Some tendencies appeared as follows:

- (a) There was a slightly higher number of whites than nonwhites.
- (b) There was a very slight tendency for 10/11th grade nonacademic students to use this resource the least.
- (c) There was a very slight tendency for high reading ability college-bound students to use it more.

Source 15: Computer

Again, some nebulous patterns can be seen.

- (a) Students in a nonacademic program are least likely to use a computer.
- (b) There is a tendency for 12th graders to use it more.
- (c) Whites use it more than nonwhites.

Source 16: Other Materials at School

Whites used these the least. Also, nonacademic used them more than academic did.

Source 17: Public Library

Several tendencies were found, as follows:

- (a) Of the 10/11th grade nonwhite males who have high reading ability and plan to go to college, 64 percent reported using the public library as a source. The largest percentage of users came from this group.
- (b) The fewest users (16 percent) were 12th grade white males not planning to go to college but describing their reading ability as high.
- (c) Whites used the public library less often than nonwhites.



-199-

- (d) There was some tendency for users to claim a high reading ability and nonusers to report a lower ability.
- (e) White males used the library the least, followed by white females. The most frequent users were nonwhite females.
- (f) Users tended also to be college bound and to have high self-reported reading abilities.

Source 18: Career Center

One very strong pattern emerged: Nonwhites used a district or regional career center more than whites. There were no other observable patterns.

Source 19: State Employment Office

Six observations are worth notice:

- (a) Using this resource most (li percent) were 10/11th grade nonwhite females with a high reading ability and planning to go to college.
- (b) Those using it least (1 percent) were 12th grade white females who were also college bound and of high reading ability.
- (c) There was a slight tendency for 10/11th graders to use it more than 12th graders.
- (d) There was also a slight tendency for low reading ability students to use it more than high ability.
- (e) There was a slight tendency for users not to be college bound.
- (f) There was a pronounced relationship between race and usage. Nonwhites use the state employment office more than whites do.

Source 20: Other Place Outside School

No pattern became clear, but the average group percent marking this "resource" ranged from 22 percent to 39 percent.

Source 21: Career Days

These patterns were found:

- (a) The greatest percentage (51 percent) using career days as a resource were 10/11th grade nonwhite males with high reading ability planning to go to college and in an academic program.
- (b) Those using it least (10 percent) were 10/11th grade white males with low reading ability but still planning to go to college.
- (c) There was a tendency for white 10/11th graders to use it the least, and nonwhite 10/11th graders to use it the most.
- (d) There was a tendency for females to use it more than males.



-200-

Source 22: Career Clubs

The greatest percentages using career clubs were 10/11th grade nonwhite academic college-bound high reading ability females (14 percent) and males (12 percent). Also, there was a slight tendency for nonwhites to use them more than whites. There was a tendency for those planning not to go to college to use them more than college-bound students.

Source 23: Classes

The following tendencies were found:

- (a) Nonwhites use this resource more than whites.
- (b) Females use it more than males.
- (c) There is a slight tendency for those in nonacademic programs to get information from classes in career planning.
- (d) Twelfth graders are somewhat less likely to get their information from courses in career planning.

Source 24: Job Shadowing

These tendencies emerged:

- (a) Nonwhites more often get occupational information from job shadowing than do whites.
- (b) There is a tendency for women to get information from job shadowing more than men.
- (c) Those in nonacademic programs tend to use job shadowing the most.

Source 25: Visits to Work Sites

The group using visits to work sites most frequently (30 percent) were 12th grade white females with low reading ability and not planning to go to college. Those using it the least were 10/11th grade white males of low reading ability in an academic program and planning to go to college.

The patterns are rather complex:

- (a) Whites constitute both the lowest and highest percentage of students using work site visits. Tenth and eleventh grade whites are the lowest, and twelfth grade whites are the highest. Nonwhites, particularly 10/11th graders, are in the middle.
- (b) There is a slight tendency for college-bound students to use it less.
- (c) There is also a tendency for 12th graders to use it more than 10th or 11th graders.



-201-

Source 26: Work-study

- (a) The strongest pattern relates to grade, with 12th graders using workstudy programs more than 10/11th graders.
- (b) Race is also a U-shaped curve, with whites using work-study both the least and the most. The nonwhites using it the most tend to be 12th graders.
- (c) Those with high reading ability use it the most.

The greatest users are 12th grade white females with high reading ability who do not plan to go to college (21 percent) and who do plan to go to college (18 percent). The fewest students using work-study are 12th grade white college-bound female: (less than one percent).

Source 27: Volunteer Work

- (a) Those least likely to use volunteer work as a career information source are 10/11th graders.
- (b) Those in nonacademic programs are more likely to use it.
- (c) There is a slight tendency for women to use it more than men.
- (d) Those using it the least are 10/11th grade white males who plan to go to college (2 percent).

Source 28: Former Students

- (a) Nonwhites use former students as a resource more than whites do.
- (b) Tenth/eleventh graders use them both the least and the most, with twelfth graders falling in the middle.
- (c) Nonacademic students use them the least.
- (d) High reading ability students use them the most.

The lowest users of former students tend to be 10/11th grade whites (usually male) in a nonacademic program.

The highest users are 10/11th grade high reading ability students, males slightly more than females.

The patterns are very complex and would require some speculation to explain their clustering.

Source 29: Workers or Employers

Twelfth grade whites in a nonacademic program use workers and employers the most; 10/11th grade white males of low reading ability but planning to go to college use workers the least.

The strongest pattern is grade, with 12th graders using workers more than 10/11th graders.



-202-

Source 30: Other Activities Arranged by the Cahool

Nonwhite 10/11th graders most often marked other activities. Least often were white males. White females in a nonacademic program were somewhat higher, but not so high as nonwhites as a whole.

Source 31: Work

- (a) The strongest pattern was with grade, with 12th graders marking work more frequently than younger students.
- (b) There was some tendency for nonacademic noncollege-bound students to use it the most.
- (c) There was a tendency for whites to use it the most.

Twelfth grade white nonacademic noncollege-bound males of low reading ability used work as a resource the most (55 percent). The second most frequent user was that same group having high reading ability (44 percent). The third most frequent was again the same high reading ability group, but female (also 44 percent).

Using it the least frequently were 10/llth grade nonwhite females with high reading ability planning to go to college (16 percent) and next to the lowest was that same group but having low reading ability and not going to college.

Source 32: Watching People at Work

- (a) Academic students planning to go to college watched people at work the least.
- (b) Females watched workers more than males.

Source 33: TV

- (a) There was a tendency for more nonwhites to get information from TV than whites.
- (b) Nonacademic, noncollege-bound students use TV the least.
- (c) High reading ability, college bound use TV more frequently.
- (d) Twelfth graders use it less than 10/11th graders.

Source 34: Movies

The most noticeable patterns are that 12th graders use movies less than 10/11th graders, and college-bound students use movies more than non-college bound. Likewise, those in academic programs use movies less. Those with the highest reading abilities tend to use movies the most.

Source 35: Clubs

(a) Tenth/eleventh graders use clubs more than twelfth graders do.



- (b) High reading ability students use them more than low ability.
- (c) There is a slight tendency for females to use clubs more than males do.

Source 36: General Reading

- (a) Strongest pattern is with reading ability—high reading ability students use reading most.
- (b) There is a slight tendency for females to use reading more than males.
- (c) College-bound students definitely use reading more than noncollegebound and students in an academic program more than those in a nonacademic one.

Source 37: Other Activities Outside of School

Whites use these resources more frequently than nonwhites do. Also high reading ability students use them more than do lower ability students.

Summary of Response to Question 48

It is extremely difficult to summarize these findings in a way that Will lead to useful generalizations. Table 72 has been constructed to bring together the more pronounced relationships for inspection. In the "most frequently cited" column, all the characteristics in a row constitute a type; the same statement is true of the "less frequently cited" column. For example, for Resource 1, teachers, we find that 12th grade students in nonacademic programs, claiming high reading ability, planning to go to college, and belonging to the female sex and white race use teachers with above average frequency. The characteristics that, taken together, constitute a type should not be considered in isolation. For example, from the first row for teachers we cannot conclude that being in an academic program and planning on going to college are characteristics that lead students to use teachers; these same characteristics are found in a type that uses teachers less frequently than average. Some "types" consist of only a single characteristic -- male or female, white or nonwhite, and so on. Other "types" are marked by all six characteristics. Not all the relationships discussed in the text are shown in the table; the less pronounced ones have been omitted.

One can perhaps tease out a few conclusions from the table. Students who rate their reading ability high tend to get information from resources that require reading — the librarian, books and publications, the public library, general reading. Nonwhites use the employment service, public library, regional career center, state employment office, and job shadowing more than whites do.



-204-

Students in nonacademic programs, who will presumably be looking for employment sooner than their academic fellows, seem to get information firsthand -- from job shadowing, volunteer work, workers or employers, or work itself. But the main impression left by the table is that the student-type versus resource investigation does not lead to a pot of gold.

Sources of Specific Topics of Information

Another way to look at frequency of use is to see which resources students cited as having provided information about specific aspects of a job the students were thinking of entering. Question 46 asked students to name the job. Questions 50, 52, 54, 56, and 58 asked students to identify the source of their information about (a) educational and training requirements, (b) wages or salaries, (c) job security, (d) opportunities to help others, and (e) the usual activities of a worker on the job. Students selected their answers from the same list of resources discussed in the previous section of this chapter.

Table 73 shows the five resources (out of 37 listed) that students named most frequently; they are teachers, counselors, parents or relatives, someone in the line of work of the student's prospective job, and publications. These top five always appeared at the head of the list of resources actually used, except for information about the usual activities of a worker on a job, for which work and watching people at work were cited more frequently than counselors. The order was not always the same, except that counselors were cited least frequently among the top five, and teachers next least. Someone in the line of work was the favored source for information about job security. Publications were favored for wage and salary information (they nosed out parents by a fraction of a percentage point), and parents or relatives were favored for the other three topics of information. All of the percentages are small, however, indicating that students named a great number of different sources.

A note of caution is necessary with respect to Table 73. Students did not have equal access to all 37 resources. One would not expect, for example, computers or microfiche to be named among the top five, for only 1,232 students (25 percent) of the 4,882 students in the sample had access to a computer. By contrast, nearly all the students had access to the top five resources.

What type of students favor the various resources 3 get these five specific topics of information? The answer appears in Tables 74 - 78 which show the student types that designated a particular source with disproportionate frequency.

The meaning of disproportionate can be understood from the following example. On the average about 13 percent of the entire student sample marked "books, magazines, pamphlets, and reports." A disproportionately high 19 percent of the high reading ability, academic, nonwhite females marked this category. Likewise, a mere 4 percent of the nonacademic, 10th/11th grade, low reading ability but college-bound, white females marked it. As another example, just under 16



percent of the entire sample marked "parents or relatives." However, 33 percent of the 10/11th grade, nonacademic, low reading ability, college-bound white males marked this category. That percentage is disproportionately higher than average.

A few themes appear from these tables.

- l. Whites get information about all five topics from parents or relatives; for information about education and training and about job security the type is white males.
- 2. Noncollege-bound students disproportionately cited work as a resource for all five topics; for education and training and for job activities work is cited by 12th grade nonacademic noncollege-bound whites; for wages and salaries it is cited by 12th grade nonacademic and noncollege bound; for job security and helping others, it is cited by noncollege-bound whites.
- 3. Whites get from computers information about education and training, job security, opportunities to help others, and job activities; for education and training, the type becomes white males.
- 4. Nonwhites use the public library for all topics except job security; lOth and llth graders use it for all topics except wages and salaries.

Although relationships emerge between types and specific topics of information, it is hard to spot a strong trend. Students of all types seem to get their information from a variety of sources.

Summary for Question C2

It appears that there is a relationship between type of student and type of resource, but it is not at all clear that the relationship is so pronounced that guidance professionals can apply their knowledge for the benefit of the students.



Table 72

Types of Students Who Use Various Resources
With More Than Average Frequency and Less
Than Average Frequency

| | | | Types that cite more frequently than average | | | | | | | | | | |
|------------------|-----------------------------|--------|--|--------|-------|----------|------------|----------|--------------|--|-------------|--------|-------------|
| Res | ource | Grade | Pro- | Read- | Plans | Sex | Race | Grade | Pro- gram | Read- ing | Plans | Sex | Race |
| 1. | Teachers | 12 | N | н н | С | F F | w w | 10/11 | N | L | С | M M | W |
| 2. | Counselors | 12 | | H | С | F | W | 10/11 | N | L H | N | М | W |
| 3. | Principal or assistant | | No patte | rn | | | Ì | | No pati | ern | | | |
| 4. | Librarian | 10/11, | Α | H i | c ! | М | NW WV | 12 | N | Н | , N | M | W |
| 5. | Friends | | No patte | rn | | | | | No pati | ern | | | |
| 6. | Someone else at school | | No patte | rn | * | <u> </u> | - † | | No pat | tern | | | |
| 7. | Parents or relatives | 10/11, | A A | H | С . | F | W W | 12 | N N | н | N | F | W W |
| 8. | Friends out of school | | | | | Only s | light r | elations | hips | | | | |
| 9. | Someone in line of work | 12 | A | ! | C : | F | w | 10/11 | , | The second secon | C | M H | W W |
| 10. | Employment service | 10/11 | N | L , | N i | F | . NM NM | | | | | м | . w |
| IC ed by ERIC | Someone else outside school | 12 | - | : | 1 | | | 10/11 | | | · - | | |
| 1 (| 97 | 1 | | | | | | | | : | | | . L. |

Table 72 (cont.)

| - | | | | es that uently t | | | | | | | cite les | | |
|------|--------------------------------------|--|------|---------------------|--------|---------|----------|-------|------|-------|----------|-----|------|
| | <u> </u> | | Pro- | Read- | | T | | | Pro- | Read- | | T | 1 |
| Reso | ur <u>ce</u> | Grade | gram | ing | Plans | Sex | Race | Grade | gram | ing | Plans | Sex | Race |
| 12. | Books, magazines, pamphlets, reports | | | | | F | NW | | | | | м | N |
| | , ,, | 10/11 | A | н | С | М | NW | 10/11 | N | L | C | М | W |
| 13. | Films, tapes, cassettes | | | | | | MM | | | | | V | W |
| | | | | | N | F | | | | | l c | l " | |
| | | | N | | | | | | A | | | | |
| _ | | 10/11 | N | L | N | F | NW | 12 | N | H | C | м | W |
| 14. | Microfiche | | On | y sligh | relati | nshi | s | | | | | | |
| 15. | Computers | | 0n | y sligh | relati | nshi | s | | | | | | |
| 16. | Other materials at school | | N | | | | NW | | A | | | | W |
| 17. | Public library | 10/11 | | н | С | М | WN WN | 12 | | н | N | M | V |
| | | | | Н | | F | NW | | | L | | м | W |
| | | | | H | С | | | | | | | | Į . |
| 18. | Regional Career Center | | | | | | ИM | | | | | | ŀ |
| 19. | State employment office | 10/11 | | н | С | F | NW WW | 12 | | H | С | F | L L |



| | | | | cite mon | | | Types that cite less frequently than average | | | | | | |
|---------------------------------|--------------------|------|----------|------------|-----|------|--|------|----------|-------|--|----------|--|
| | | Pro- | Read- | THE REPORT | I | | | Pro- | Read- | | 1 | 1 | |
| Resource | Grade | gram | ing | Plans | Sex | Race | Grade | gram | ing | Plans | Sex | Race | |
| 20. Other places outside school | | | No di | tinctive | pat | tern | | | | | | | |
| 21. Career days | 10/11 | ٨ | Н | С | м | ММ | 10/1. | | L | С | М | W | |
| 22. Career clubs | 10/11 | A | H | С | F&M | ИМ | | | | | | | |
| 23. Classes | | | | | F | ΝW | | | | | м | W | |
| 24. Job shadowing | | | | | | NW | | | | | | W | |
| 25. Visits to work sites | 12 12 | | L | N | F | 3 3 | 10/11 10/11 | A | L | С | м | W | |
| 26. Work-study | 12 | | | | | Wa | 10/11 | | | | A CONTRACTOR OF THE CONTRACTOR | Wa | |
| | 12 | | H | N | F | W | 12 | | <u>L</u> | С | F | W | |
| 27. Volunteer Work | 12 | | † | | | | 10/11 | | | | | | |
| | | N | | | | | 10/11 | A | | С | М | W W | |
| 28. Former students | 10/11 ^a | | | | | NW | 10/11 ^a | | | | | Ų. | |
| | _0, | Α | u | | | | | N | + | | | | |
| • | 10/11 | İ | H | | м | | 10/11 | N | L | 1 | M | W | |

| | | | free | quently | cite mo than ave | | | | ss rage | | | | |
|-----|----------------------------------|----------------------|--------------|--------------|---------------------|--|-------------|-------------------------|--------------|--------------|--------|-----|--|
| Re | Source | Grade | Pro- gram | Read- ing | Plans | Sex | Race | Grade | Pro- gram | Read- ing | Plans | Sex | Race |
| 29. | Workers or employers | 12 12 | N | | | de character management de la constitución de la co | ¥ | 10/11 10/11 | | L | С | H | w |
| 30. | Other school-arranged activities | 10/11 | | | | | NW | | | | | м | W |
| 31. | Work | 12 12 12 12 | N N N | L H H | N N | M M F | w w w | 10/11 10/11 10/11 | | H L | C N | F | NW NW |
| 32. | Watching people at work | | | | | F | | | A | | С | м | The second secon |
| 33. | īv | 10/11 | | н | С | | | 12 | N | | N | | |
| 34. | Movies | 10/11 | N | | С | | | 12 | | | N | | |
| | | | | н | | | | | A | L | | | |
| 35. | Clubs | 10/11 | | н | | | | 12 | | L | | | |
| 36. | General Reading | | A | н | С | | | | N | L | N | | |



Table 72 (cont.)

| | Types that cite more frequently than average | | | | Types that cite less frequently than average | | | | | | | |
|-------------------------------------|--|--------------|--------------|-------|--|------|-------|--------------|--------------|-------|--|------|
| Resource | Grade | Pro- gram | Read- ing | Plans | Sex | Race | Grade | Pro- gram | Read- ing | Plans | Sex | Race |
| 37. Other activities outside school | | | Н | | | W | | | L | | distribution of the second second second second second second second second second second second second second | NW |

Legend:

For program, A = Academic, N = Nonacademic

For reading, H = High, L = Low (self-report)

For plans, C = College-bound, N = Noncollege-bound

For race, W = White, NW = Nonwhite

Very weak tendencies are not shown.



a Distribution is U-shaped

Table 73

Most Commonly Cited Resources for Five Items of Occupational Information

| | | | Resource | | | | | | | |
|--------------------|------------------------------|------|----------|------------|-----------------------|---------------------------|----------------------------------|--|--|--|
| Question Number | Information | N | Teachers | Counselors | Parents/ Relatives | Someone in line of work | Books, magazines pamph., reports | | | |
| 50 | Education/training reqs. | 4378 | 11ª | 8 | 16 | 12 | 14 | | | |
| 52 | Wages or salaries | 3878 | 8 | 4 | 16 | 14 | 16 | | | |
| 54 | Job security | 3185 | 7 | 4 | 16 | 13 | 13 | | | |
| 56 | Opportunities to help others | 3358 | 8 | 5 | 13 | 13 | 13 | | | |
| 58 | Job activities ^b | 3928 | 8 | 3 | 13 | Ŋ | 12 | | | |







 $^{^{\}mathbf{a}}$ Percentage of students who qualified to answer the question, all strata.

bwork was cited as a resource by 5 percent of the students. Watching people at work was cited by 4 percent.

Table 74

Resources Favored More Than Average by Various Students for Information about Education and Training Requirements

| Resource | Student Type | | | |
|---|--|--|--|--|
| Teachers | Low ability females in non- academic programs* | | | |
| Counselors | 10th and 11th graders* | | | |
| Parents or relatives | White males* | | | |
| Friends Outside of school | White males | | | |
| Someone in the line of work of interest | White male seniors of high reading ability* | | | |
| Books, magazines, pamphlets, reports | Nonwhite high reading ability females* | | | |
| Computer | White males | | | |
| Public library | lOth/llth grade nonwhite females | | | |
| Career days or assemblies | 10th/11th grade nonwhite nonacademic | | | |
| Visits to work sites | 10th/11th grade females | | | |
| Work/study or internship programs | 12th grade whites | | | |
| Other activities arranged by school | High reading ability | | | |
| Work | <pre>12th grade white nonacademic noncollege-bound</pre> | | | |
| Watching people at work | White females | | | |
| Clubs (e.g., 4-H) | Whites | | | |
| General reading | High ability college-bound | | | |
| Other activities outside school | White male academic program | | | |
| Someone else outside of school | High reading ability white senior | | | |

^{*}Students of this type cited the associated resource with a frequency that exceeded the average by 10 percent or more.



Table 75

Resources Favored More Than Average by Various Student Types for Information About Wages or Salaries

| Resource | Student Type | | | | |
|--------------------------------------|--|--|--|--|--|
| Teachers | 12th grade nonwhites of high reading ability* | | | | |
| Counselors | High reading ability academic program | | | | |
| Librarian | Nonwhites | | | | |
| Parents or other relatives | Whites* | | | | |
| Friends outside school | White males of low reading ability | | | | |
| Someone in line of work | Whites* | | | | |
| Someone outside school | 12th grade whites | | | | |
| Books, magazines, pamphlets | High reading ability females, college- bound in academic program* | | | | |
| Public library | Nonwhites | | | | |
| District or regional career center | Whites | | | | |
| Meeting with other workers/employees | Low reading ability | | | | |
| Work | 12th grade nonacademic, noncollege-bound | | | | |
| General reading | High reading ability, college-bound | | | | |
| Other activities outside school | Whites | | | | |

^{*}Students of this type cited the associated resource with a frequency that exceeded the average by 10 percent or more.



Table 76

Resources Favored More Than Average by Various Student Types for Information about Job Security

| Resource | Student type |
|-----------------------------|---|
| Teachers | High reading ability, nonacademic* |
| Friends | Low reading ability, nonacademic |
| Parents or other relatives | Whites* |
| Parents or other relatives | White males |
| Friends outside school | 12th grade whites |
| Someone in line of work | 12th grade nonwhite males, academic, college-bound* |
| Someone else outside school | 12th graders |
| Books, magazines, pamphlets | College-bound* |
| Microfiche | Whites |
| Computer | Whites |
| Public library | 10/11th grade college-bound |
| Career days/assembly | High ability, academic program |
| Work | White, noncollege-bound |
| Watching TV | Males |
| General reading | High ability, academic program |

Students of this type cited the associated resource with a frequency that exceeded the average by 10 percent or more.



Table 77

Resources Favored More Than Average by Various Student Types for Information About Opportunities to Help Others

| Resource | Student Type |
|---------------------------------------|---|
| Teachers | 12th graders* |
| Counselors | Nonwhite females |
| Friends | Whites |
| Parents/relatives | Whites* |
| Someone else outside school | Whites |
| Books, magazines | High reading ability females* |
| Computer | Whites |
| Public library | 10/11th grade, nonwhite, high reading ability, academic |
| Classes in career planning | White, high reading ability |
| Job shadowing | Whites |
| Meeting with former students | 10/11th graders |
| Meeting with other workers, employers | Whites |
| Work | White, noncollege-bound* |
| Watching TV | 10/11th graders |
| Clubs (e.g., 4H) | Whites |
| General reading | College-bound |
| Other activities outside school | Academic program |

^{*}Students of this type cited the associated resource with a frequency that exceeded the average by 10 percent or more.



Table 78

Resources Favored More Than Average by Various Student Types for Information About Usual Work Activities of a Job

| Resource | Student type |
|--------------------------------------|--|
| Teachers | Females* |
| Friends | Females |
| Someone else at school | Females |
| Parents or relatives | Whites* |
| Friends outside school | White males |
| Someone in line of work | l2th grade whites of high reading ability* |
| Someone else outside school | Whites in academic program |
| Books, magazines, pampalets | Academić program* |
| Computer | Whites |
| Public library | 10/11th grade nonwhites |
| Meeting with other workers employees | Whites |
| Work | 12th grade white nonacademic, noncollege- bound |
| Watching TV | 10/11th grade |
| General reading | College-bound |
| Other activities outside school | High ability |
| | |

^{*}Students of this type cited the associated resource with a frequency that exceeded the average by 10 percent or more.



CHAPTER X

RESEARCH QUESTIONS C3 AND C4

Question C3 is "For what purposes do students use these resources and what motivates these purposes?" Question C4 is "What specific kinds of information do students seek and obtain from these resources?"

These questions are obviously intertwined, since one purpose of using a resource is to get a specific kind of information. The questions are also intertwined with questions about counselors, who serve as resources, motivators, and arrangers. Therefore, for convenience, we will answer question C4 first because that answer leads to inferences about the purposes students may have had in mind. Also, we will range to other sections of this report which bear on the two questions.

Specific Kinds of Information Sought (C4)

What information are students looking for? The students' answer to this question for each of the five categories of resources are shown 'n Table 79. The responses in the three strata were generally similar, and the findings are reported for all the students.

No matter which resource is used, the main thing the students are looking for is information about prerequisites for a job. The runner-up is information about wages and salary, except when the resource is activities; students using that resource want to learn about job activities more than earnings.

Generally, all the resources seem to be used in the same way. Computers are used with greater frequency than other resources for getting information about earnings and outlook; in most computer systems this information is regional (as opposed to national) and is brought up to date frequently.

Motivation for Seeking Occupational Information (Part of C3)

What prompts students to look for occupational information? This question must be answered before the subject of the purpose the student had in mind can be addressed. The question will be examined from two perspectives; first, the source from which the student heard that a resource was available, and, second, the reason why the student sought the information. The first is an aspect of motivation because, in indicating an awareness of a resource's existence, students showed that their source of information has had a demonstrable effect.



244

How students learned about resources. Table 80 shows how students learned that each of the five categories of resource was available at their school.

The most common fountainhead of information is the guidance counselor and staff. Hever, for learning about activities it is teachers. This finding is not surprist for teachers have considerable responsibility for supervising exploratory work—experience programs, and, moreover, vocational/technical teachers would carry influence in the subjects they teach. Teachers have an important role as informants about all categories. The school librarian is also important for publications, microfiche, and sorting cards. These resources may actually be in the library. The librarian plays a smaller part with computers and activities, which do not usually involve the library.

The least effective informants are the school newspaper, teachers outside the school own classes, and posters on a bulletin board.

Reasons for seeking information. What causes students to look for occupational information? Students' responses to Question 39, which asked this question are shown in Table 81.

The most common stimulus to search for occupational information is clearly parents or relatives. This finding comes as no surprise, considering the evidence, discussed elsewhere, that parents play a large role in career decision making. Farents are cited least frequently (by 18 percent of students) as having never stimulated the students in their search, and are cited most frequently (by 31 percent) as having stimulated them many times. The next most common stimulant is a friend. This finding is also consistent with findings discussed earlier about the importance of friends as sources of occupational information.

formal motivators within the school are also important. If the percentages of 'a few times' and 'many times' are summed, class assignments (45 percent), counselors (42 percent), talk or lecture (37 percent), and film (36 percent) rank 3, 4, 5, and 6 after parents and friends. Stimulants not related to school, namely experience on the job and TV shows or movies, also rank fairly high, each affecting 35 percent of the students at least a few times.

Question 2 in Part B of the school questionnaire also asked about the effectiveness of various motivators within the school in getting students to use occupational ir formation. The results (national estimates) are shown in Table 82. They cannot be compared directly with Tables 80 and 81 because the wording of Question 2 in the school instrument was different from the questions in the student instrument. Yet the tables cover much the same territory. There is considerable agreement among them. Students ranked counseter and teachers high as the cause of their learning that occupational information tesoure, were available (Table 80). Also, talks with counselors and class assimilations were among the most frequently named reasons (of those found at the



-220**-**

school) for seeking occupational information (Table 81). These perceptions on the part of the students seem to agree well with the schools' perceptions that counselor and teacher referrals are "Very effective" as motivators (Table 82). It is interesting to note on Table 82 that group visits rank just below counselor referrals as effective motivators. Over 59 percent of the schools (national estimate) cite job site-tours as an information resource they use and about 40 percent of students have participated in such tours (Table 71). Students were not asked whether they had sought occupational information as a result of a group visit. Some 35 percent of them, however, had sought it more than once because of experience on a job (Table 81). Direct experience with the realities of work itself clearly plays an important role in career guidance as a direct source of information or as a motivator to seek it.

Type of Student That Is Affected by Various Motivators

The responses to Question 39 were analyzed to see whether different types of students were differentially affected by the various motivators. Student types were discussed in the previous chapters.

There does seem to be some differentiation. In the following analysis, all the differences noted are statistically highly significant (p < .01).

The students most often looking for occupational information because of a class assignment were 12th grade white females in a nonacademic program not planning to go to college. In general, however, there was a tendency for more nonwhites and women to search for information as a result of a class assignment.

Those most frequently seeking information from visiting a school guidance counselor were 12th grade, high reading ability, college-bound white females. As a rule, guidance counselors were marked more by 12th graders than 10th/11th graders, more by high reading ability than low reading ability students, and slightly more by females than males.

Talks given at school were most frequently cited as a reason for seeking occupational information by 10th/11th grade high reading ability, college-bound nonwhite women. However, 12th graders overall were more likely to seek information as a result of these talks than were the younger students. Nonwhites also sought information more often than whites.

Films at school most often provided a basis for seeking occupational information to 10th/11th graders, low reading ability, nonwhite females not planning to go to college. Nonwhites more than whites tended to be influenced by films. Students in a nonacademic program marked films more frequently than did those in academic programs.

Those most frequently seeking information because of bulletin board displays were 10th/11th grade academic, high reading ability, college-bound nonwhites, both male and female. Overall, nonwhites were influenced by bulletin board displays more than whites, and there was a very slight tendency for females to use them more than males.



-221-

High reading ability, college-bound females more frequently sought information as a result of talking with their parents about occupations than did males, students of lower reading ability, or those in nonacademic programs.

Experience on a job was frequently cited as a reason for seeking occupational information for 12th grade, nonacademic, low reading ability students -- particularly white males.

Movies and TV were most frequently cited as reasons for seeking occupational information by 10th/11th grade high reading ability, college-bound nonwhite females. In general, the 10th/11th graders marked TV and movies more often than 12th graders, high reading ability college-bound more than low reading ability, noncollege-bound students, females more than male—and nonwhites more than whites.

There were no significant differences among student types talking with a friend. There was only a slight pattern suggesting that females, more than males, looked for occupational information after talking with a friend.

Purposes for Using the Resources (First Part of C3)

It is now convenient of make some inferences about the students' purposes in using the resurces. Purpose is construed as embracing global questions that specific items of information help answer. The purpose of going to a resource is to search for information for answering questions like "What kind of program should I take next semester?" "What occupations might satisfy me?" "Should I go to college?"

The questionnaire did not ask specifically about purpose because such questions are ambiguous and made the instrument too long. However, some reasonable inferences can be made from various questionnaire items, and some items bear directly on the subject.

When the resource is a counselor, we see from Table 70 that the most common purpose is to talk about high school courses. This activity occurred more than once for about 82 percent of the visits. The corresponding percentages for talks about occupations or preparing for occupations were 51 for the former and 61 for the latter. The subjects of attendance and personal problems lagged far behind.

The students who most frequently spoke with counselors about high school courses were high reading ability, college-bound females in an academic program. Generally, however, males spoke with counselors about as much as females. Twelfth graders indicate a slightly higher frequency than 10/11th graders.

In choosing an occupation, 12th grade, high reading ability, college-bound white females talked with counselors more than any other type of student.



Generally, females talked with counselors more than males, high reading ability more than low reading ability students, and those in academic programs more than others. There was no overall pattern in racial background.

In preparing for an occupation, again the high reading ability, academic, college-bound students talked most frequently with counselors.

Nonwhites spoke with counselors about how or where to get a job significantly more frequently than did whites. There was a slight tendency for females to talk with them more frequently than males.

There were strong relationships between reading ability, high school program, college plans, and frequency of talking with a counselor about attend nce and discipline problems. Those most often seeing a counselor for these reasons were low reading ability, nonacademic, noncollege-bound males. Overall, there was no clear pattern with respect to race or sex.

In general, those most often talking about personal problems with a counselor were nonacademic nonwhite females not planning to go to college. The relationship was less strong with race than with school program, plans, and sex.

Another purpose for seeking occupational information is apparent in Table 81. In their responses to Question 39, 65 percent of students in the three strata checked "Class assignment" as one of their reasons for looking for occupational information at least once. Only 32 percent had never done so. Evidently, one purpose of looking at occupational information is to complete an assignment imposed by a teacher.

Other purposes can only be guessed from the data in the tables. Table 79 suggests that the kind of specific information students are looking for concerns their immediate requirements rather than long-range plans. They want to know what the prerequisites for a job are more than they want to know the satisfactions they might expect from a job or even what the outlook is for job openings in the decade ahead. Wage and salary information — another immediate concern — is also important to them.

It would be dangerous to push these speculations too far.

Summary

The answer to the research question about the object of the search for occupational information is that students are most concerned with hard facts of immediate interest — the prerequisites for entry, the earnings they may expect, what the job activities will be, the courses they should take in high school. They seem less concerned about the longer range aspects of work — the satisfactions to be derived from a job and outlook years ahead. Trying to get a list of jobs they might like varies in importance. But all these classes of information are important to a substantial number of students using any resource.



-223-

Formal school personnel — guidance counselors, teachers, the librarian, are the most common sources of information about where to get career information materials or activities. Bulletin boards and school newspapers are not often cited as sources.

Parents and friends are the most commonly cited stimulants to look for occupational information. Formal school sources play an important part, too, and no motivator is so ineffective as to be negligible.

Different motivators affect different types of students. The relationships are complex and not easy to generalize. If what is true about talks with counselors is also true of other resources, the desire to work out high school course motivates high reading ability, college-bound 12th grade students more than others; choosing an occupation and preparing for an occupation motivate 12th grade high reading ability, college-bound females in academic programs; where to get a job motivates nonwhite females; and problems with discipline motivates low reading ability noncollege-bound males in nonacademic programs.





Table 79

Information Sought from Resources in All Strata

| | | Reso | urce | | |
|--------------------------------------|-------------------------------|----------------------|----------------------------|-----------------------------|------------------------|
| Information sought | Publica- tions N = 3825 | Computers N = 628 | Micro- fiche N = 627 | Sorting cards N = 658 | Activities N = 4283 |
| Description of job activities | 47 ⁴ | 48 | 45 | 47 | 53 |
| Prerequisites for a job | 73 | 76 | 64 | 64 | 66 |
| Outlook for job openings in 80's | 38 | 45 | 37 | 36 | 37 |
| Wage or salary in an occupation | 55 | 58 | 53 | 50 | 48 |
| Satisfactions from a job | 31 | 31 | 28 | 28 | 34 |
| A list of occupations you might like | 47 | 45 | 36 | 42 | 40 |
| Other information about occupations | 11 | 12 | 11 | 9 | 10 |
| No special information | 5 | 4 | 10 | 3 | 6 |

^aAll figures are percent of the total in all strata that used the resource.



Table 80

How Students Learned That Various
Resources Were Available -- All Strata

| | 1 | Res | source | | |
|------------------------------|-------------------------------|-----------------------|-----------------------------|------------------------------|------------------------|
| (nformant | Publica- tions N = 4236 | Computers N = 1232 | Micro- fiche N = 1301 | Sorting cards N = 1077 | Activities N = 4882 |
| Guidance counselor/ staff | 48ª | 51 | 35 | 41 | 39 |
| Career education specialist | 12 | 19 | 16 | 19 | 14 |
| Teacher in class | 38 | 34 | 29 | 31 | 47 |
| Teacher outside of class | 7 | 5 | 4 | 4 | 10 |
| School librarian | 28 | 10 | 33 | 23 | 8 |
| Poster on bulletin board | 13 | 6 | 3 | 4 | 15 |
| School newspaper | 2 | 3 | 1 | 1 | 4 |
| Friend at school | 21 | 34 | 18 | 16 | 22 |
| Group visit or orientation | 11 | 9 | 9 | 7 | 14 |
| Other | 9 | 5 | 7 | 4 | 5 |
| Don't Remember | 5 | 6 | 3 | 4 | 6 |

^aAll figures are the percent of the total in all strata that used the resource.



Table 81

Reason for Seeking Occupational Information,
All Strata

| | Fred | uency | N = 4882 | |
|---------------------------------|-------|----------------|-------------|------------|
| | Never | Once | A few times | Many times |
| Motivator | | _ | + 3/ | 11 |
| Class assignment | 32 | 20 | 34 | 1 |
| Talk with a counselor | 36 | 19 | 32 | 10 |
| Talk or lecture at school | 39, | 21 | 31 | 6 |
| A film at school | 41 | 19 | 28 | 8 |
| Bulletin board at school | 55 | 15 | 20 | 6 |
| Talk with parents or relatives | 18 | 10 | 38 | 31 |
| Experience on a job | 48 | 14 | 24 | 11 |
| TV show or movie outside school | 50 | 11 | 27 | 8 |
| Talk with a friend | 24 | 14 | 40 | 20 |

^aPercentage of all respondents in the three strata.



Table 82

Effectiveness of Various Motivators in Getting Students
To Use Occupational Information

| Effectiveness | Me thod | | | | | | | | |
|--------------------|------------------------|----------------------|----------------------|-------------------------|--------------------------|-----------------|------------------|--|--|
| | Counselor referrals | Teacher referrals | Bulletin displays | School paper notices | Class an- nouncements | Group visits | Other methods | | |
| Very effective | 47ª | 30 | 6 | 3 | 15 | 45 | 15 | | |
| Somewhat effective | 46 | 60 | 59 | 38 | 60 | 46 | 5 | | |
| Not effective | 1 | 6 | 2 7 | 21 | 14 | 2 | <1 | | |
| Not used | 4 | 3 | 6 | 34 | 9 | 5 | 7 | | |
| No response | 2 | 2 | 2 | 3 | 2 | 1 | 73 | | |



 $^{^{\}rm a}$ All figures are percentages, national estimate.

CHAPTER XI

RESEARCH QUESTION D1

Question dl is "What resources do students use in career planning in addition to the resources of the school?" Both the school and student questionnaire probed this question. The school questionnaire asked whether an external resource center was available and, if so, what it contained in the way of the usual categories of resource. The student questionnaire asked, as we have already seen, what resources students actually used. We will take up these matters in that order.

Formal Resources in an External Center

Schools were asked in Question 51 whether an external resource center was available with substantial amounts of career information for the schools' students. An external resource center was defined as "a career resource center, a media lending library, a mobile unit, or other provider of occupational information."

Over 30 percent of the schools replied in the affirmative. The breakdown by stratum is shown below:

Stratum 1: 175 schools (32 percent) Stratum 2: 226 schools (34 percent) Stratum 3: 178 schools (26 percent) National estimate: 31 percent

The centers were maintained under various auspices as shown in Table 83. Mostly these centers are maintained by some agency of the state (sum of the first three items). The school district maintains them in about a quarter of the instances in Stratum 1, far less in the other two strata.

The career resources in the center fall in the same categories as the resources available at the schools, as shown in Table 84. There is heavy emphasis on publications, audiovisual equipment, and speakers or career days. Although Stratum 2 contains proportionately more external centers than the other two strata, the centers contain fewer resources of all types except microfiche and sorting devices.

External Resources Used by Students

Numerous questions in the student instrument asked students to indicate the resources they used outside of school. Responses indicate that all were used by at least some students. (Frequency of use is discussed in the next chapter.) All should be counted as external resources.



Resources for motivation. Question 39 listed nine "resources" and asked students how often they had looked for occupational information because of each of the resources. (See Table 81.) The external "resources" that serve as motivators are:

A talk with parents or relatives Experience on a job A TV show or movie outside of school A talk with a friend

Each of these resources served at least once as a motivator of 50 percent or more of the students in the sample pool.

Persons students have talked with. Question 41 asked students how frequently they had talked about occupations with ten classes of people, of which only two, guidance counselors and teachers, were connected with the school. Responses showed that all the people named had been consulted, or at least engaged in conversation, a significant number of times. (The frequencies will be discussed in the next chapter.) The external resources included on the list are:

Friends
Parents or relatives
People working in an occupation of interest
Former students at the school
State employment service counselors
Employers
College admissions officers
Armed forces recruiters

Places outside of school for getting occupational information. Question 42 asked students how frequently they had gone to each of seven places outside their school in order to get occupational information. Frequency of use varied, but it was never so small as to be negligible. (See the discussion in the next chapter.) These external repositories of occupational information are:

A public library
A state employment service office
A district or regional career center
A local college
A private employment agency
An armed forces recruiting office
An employer

Sources of information about occupations being considered. Finally, students were asked to name an occupation they were thinking about entering and to show where they had got information about it. A list of 37 potential



-230-

sources of information was supplied for them to choose from. The same list was used for answers to questions about the source of five specific topics of information. (See Tables 72 - 78 in Chapter IX.) Although some resources were clearly favored over others, the students' responses indicated that information came from a multitude of sources, and that persons compiling lists would ignore any source at their peril.

The 18 external sources from the list of 37 are:

People at school Friends Someone else at school

People outside of school
Parents or other relatives
Friends outside of school
Someone in the line of work of interest
Employment service representative
Someone else outside of school

Places to get information outside of school
Public library
District or regional career center
State employment office
Other places outside of school

Activities outside of school
Work
Watching people at their work
Watching TV
Watching movies
Clubs (e.g., 4H, Future Farmers, etc.)
General reading or reading for fun
Other activities outside of school

Again, responses showed a wide range in the extent of usage with no response so small as to be negligible.

Summary

There is much overlap in these lists, the same items appearing over and over. If we eliminate the duplications, we may arrive at a master list that includes most of the commonly used external occupational resources. This list, which contains 23 items, follows:



People outside of school

- 1. Parents or other relatives
- 2. Friends outside of school
- 3. Someone in the line of work of interest
- 4. Employment service representative
- 5. Former students
- 6. Employers
- 7. College admissions officers
- 8. Armed forces recruiters
- 9. Someone else outside of school

Places to get information outside of school

- 10. Public library
- 11. District or regional career center
- 12. State employment office
- 13. A local college
- 14. A private employment agency
- 15. Armed forces recruiting office
- 16. Other places outside of school

Activities outside of school

- 17. Work
- 18. Watching people at their work
- 19. Watching TV
- 20. Watching movies
- 21. Clubs
- 22. General reading or reading for fun
- 23. Other activities outside of school

Item 11, the district or regional center, is likely to offer the same categories of resources as are commonly found in schools. These are:

Publications
Films and other audiovisual equipment
Microfiche
Computer terminals
Keysorts and needlesorts
Speakers or career days
Center-arranged exploratory work experience
Other



Table 83

Auspices Under Which External Resource
Centers Are Maintained

| | | Stra | tum | |
|---|-----------------|--------------|---------|----------------------|
| Controlling Agency | 1 N = 540 | 7 N = 668 | N = 686 | National estimate |
| State education in- formation center | 15 ^a | 18 | 11 | 16 |
| State employment service | 15 | 12 | 8 | 11 |
| Other state agency | 6 | 6 | 3 | 5 |
| County | 9 | 6 | 8 | 7 |
| School - istrict | 24 | 11 | 14 | 13 |
| Local college | 9 | 8 | 5 | 7 |
| Other | 4 | 5 | 5 | 5 |

 $^{^{\}mathbf{a}}$ Percentages of schools in the stratum



Table 84

Types of Resources Available in the External Centers

| | Stratum | | | | | | |
|---|-----------------|---------|--------------|--|--|--|--|
| Type of resource | N = 175 | N = 226 | 3 N = 178 | | | | |
| Publications | 95 ^a | 85 | 94 | | | | |
| Films and other audiovisual | 97 | 79 | 94 | | | | |
| Microfiche | 51 | 52 | 51 | | | | |
| Computer terminals | 34 | 22 | 44 | | | | |
| Keysorts, needlesorts | 11 | 23 | 24 | | | | |
| Speakers, career dass | 81 | 61 | 78 | | | | |
| Center-arranged exploratory axperience work | 49 | 33 | 53 | | | | |
| Other | 9 | 5 | 8 | | | | |

a Percentages of schools that indicated an external resource center was available.



CHAPTER XII

RESEARCH QUESTION D2

Question d2 is "How frequently do students use these additional resources as compared to their use of the schools' resources?" This question has for the most part been answered in chapters VIII, IX, and X, since the external resources could not be conveniently divorced from the school resources. This chapter will refer to some of these earlier tables.

External Resources as Motivators

Table 81 showed the frequency with which students had been inspired to seek occupational information for various reasons. Of the nine motivators listed, the two most powerful were external—a talk with parents or relatives and a talk with a friend.

The impact of a motivator may be estimated if we multiply the percentage of "Once" responses by one, the percentage of "A few times" by two, and the percentage of "Many times" by three, and then add the totals. Doing this produces the following results:

School motivators

| Class assignment | 121 |
|---------------------|-----|
| Talk with counselor | 113 |
| Talk with teacher | 101 |
| Film at school | 99 |
| Bulletin board | 73 |

External motivators

| Talk with parents/relatives | 179 |
|-----------------------------|-----|
| Experience on a job | 95 |
| TV show or movie | 89 |
| Talk with a friend | 154 |

The most powerful school motivator (in terms of frequency) was the compulsory class assignment, and it ranked far below parents or friends among the external motivators.

Frequency of Talks with Informal Resources

Students were asked in Question 41 to show the frequency with which they had talked with various people about occupations. Such people are informal sources of occupational information, and the information they give may be of dubious quality; Table 85 shows how the students' answers were distributed.



The people the students talk with most are parents or relatives. More than 90 percent of the students in Strata 2 and 3 have discussed occupations at least a few times with relatives, and in Stratum 1 it is 89 percent. Discussions with friends are also frequent. The sums of "A few times" and "Many times" were above the 50 percent mark in all strata for talking with employees in an occupation of interest. For talking with the two school resource persons—teachers and counselors—the sums were close to 50 percent. The other five informal resources were not used much, and state employment counselors were used least of all.

Table 85 shows clearly that this class of resource is the one used most frequently. The N's are large and the percentages responding "Many times" for friends and relatives are also large. If the same formula is applied to this table as to 81—"Once" is multiplied by one, "A few times" by two, and "Many times" by three—the contrast between the use of parents, friends and knowledgeable employees as external resources, and counselors and teachers as school resources becomes even more clear. The following table shows the results:

| | Stratum 1 | Stratum 2 | Stratum 3 |
|------------|-----------|-----------|-----------|
| Friends | 229 | 230 | 234 |
| Parents | 238 | 238 | 246 |
| Employees | 142 | 138 | 142 |
| Counselors | 129 | 128 | 129 |
| Teachers | 135 | 122 | 120 |

It is interesting to examine the relationships between these resources and student types as defined earlier. Those who talked most frequently with their friends were twelfth grade, high reading ability, academic, college-bound, white females. Each of those variables alone showed the same pattern, i.e., females more than males, academic students more than nonacademic, and so on. The relationship with race was not so pronounced as it was with the other variables.

Very similar patterns held for students who talk with parents or relatives, guidance counselors, and teachers. There was a definite tendency for more twelfth graders than tenth or eleventh graders to talk with counselors, and there was no relationship with race. There was also no relationship between race and the frequency with which they talked with teachers. But the pattern with grade level, reading ability, program, plans, and sex was the same.

Ihose students who talked most frequently with people working in an occupation of interest to them were twelfth grade nonacademic, low reading ability, white males. On the whole, however, there was no relationship with sex or with plans beyond high school. The strongest relationship was with grade level, the twelfth graders talking with someone in the occupation more frequently than the tenth/eleventh graders did.



-236-

Those who most often spoke with former students were tenth/eleventh grade, academic, college-bound, high reading ability, nonwhite females. On the whole, however, there was little if any pattern with race, high school program, or post high school plans. There was a strong tendency, on the average, for twelfth graders to talk with former students more frequently than tenth/eleventh graders did.

State employment service counselors were very infrequently consulted by any students. Those who did speak with them at all (fewer than 10 percent of the sample) were nearly always nonwhite.

Students who talked frequently with employers tended to be twelfth graders in a nonacademic program. There was no relationship with sex or race.

Those who most often talked with college admissions officers were, not surprisingly, twelfth grade, academic, college-bound, high reading ability students. There was some tendency for females, more than males, to talk with them, and for nonwhites more than whites.

Armed forces recruiters were consulted very rarely by white females, particularly those in tenth/eleventh grade. Those talking to them most were twelfth grade, nonacademic, white males not planning to go to college.

There are no surprises in these findings about student types.

Frequency of Access of External Resources

Question 42 asked students how often they had taken advantage of various external resources, such as a regional resource center. The analysis of responses is shown by stratum in Table 86.

The most frequently used external resource center is clearly the public library. It was the leader in all strata, especially Stratum 1. A regional career resource center was used hardly at all--17 percent of the students in Stratum 1, 9 percent in Stratum 2, and 14 percent in Stratum 3.

The data do not lend themselves to comparisons of use of these resources with those at the school. Table 86 concerns places or people where specific types of resources exist. The data on student use of resources at school concerns the types. A rough comparison is possible, however. Students were asked how often they had read reference books like the OOH at their schools. The public library and regional resource center very probably have a copy of the OOH. The percentages of "Never" responses for the three strata were 21, 22, and 23. These compare with the corresponding percentages of "Never" for public libraries of 35, 43, and 42, and for regional resource centers of 79, 88, and 84. It seems probable that students use the facilities of their school for formal resources, such as publications, computers, microfiche, and so on.



-237-

Again, it is interesting to see whether the use of the resources listed in Table 86 varies by student type.

The public library was used most often by nonwhites and by females, and there was a slight tendency for those planning to go to college to use it more than others.

The few students (less than 10 percent) who had gone to a state employment service officer were primarily nonwhites. Likewise, the few who went to a career center were also nonwhite. No other strong patterns were evident for this resource.

Local colleges were visited infrequently, but those who did go to them were primarily high reading ability, college-bound students, generally twelfth graders.

Private employment agencies were seldom visited. No significant differences between student types using them were observed.

Armed forces recruiting officers were also seldow visited, those who did visit them were primarily males.

Employers were used most frequently as a source of occupational information by nonacademic students planning not to go to college.

Students' Feelings about the Adequacy of Their School Resources

It is evident that students rely heavily, if somewhat warily, on some external resources, especially parents or relatives and friends. The data cited in Table 73 show that students do not cite parents or relatives as the actual source of a particular topic of information so often as one might expect. Friends were not even among the five resources named most frequently as actual sources. Of the top five, three were school resources—teachers, counselors, and publications. Someone in the line of work made up the fifth member of the top five. No source was named by more than 16 percent of the students. If subsets of students were made, e.g., a subset of students who had interacted with a computer, another of those who had used a microfiche, and so on, it is quite possible that other school resources would have been among the top five for students in the subsets. These comparisons were not made, however, because the numbers of students who were aware of the resources' availability were small, and the numbers who had used them were much smaller than that.

But students were asked (Question 43) whether they thought that their school resources were sufficient to supply all the information they wanted. Table 87 shows the pattern of responses.



More students think the resources are insufficient than think they are adequate—36 percent versus 32 percent. Over a quarter of the students (28 percent) were not sure. The questionnaire could not explore the reasons for the students' dissatisfaction or the kind of improvements the students would recommend.

Summary

External resources play a large part in students' encounters with career information. Parents and friends are the most powerful motivators of students' search for information, and students talk with them about occupations far more frequently than they talk with anyone else. Parents and friends may not, however, play such a prominent part in supplying specific topics of information.

Students use the public library as a resource with considerable frequency, though probably not as much as they use comparable resources at school.

More students find their schools' resources insufficient than find them sufficient.

Students seem to trust parents and friends more than counselors and teachers or other school resources for help with occupational information activities. Students are unlikely to get from such external resources a context that will help them process the information they find. An essential part of information-seeking is that there exist a framework to give the information meaning. Guidance is one such framework, and it is more likely to be found in the school than in the informal resources that students seem actually to favor. To the extent that external resources must, by their very nature, fail to provide a suitable context for processing occupational information, the students' heavy dependence on them is cause for concern.



Table 85

Frequency with Which Students Have Talked About Occupations with Various Informal Resources

| | | | | _ | S t | rat | u m | | | | | |
|----------------------------------|------------|------|----------------|---------------|-------|-------|----------------|---------------|------------|------|----------------|---------------|
| | 1 | N - | 1598 | | 2 | N = | 1555 | | 3 N = 1729 | | | |
| Source | Never | Once | A Few Times | Many Times | Never | On ce | A Few Times | Many Times | Never | Once | A Few Times | Many Times |
| Friends | 5 a | 6 | 38 | 49 | 4 | 4 | 44 | 46 | 4 | 5 | 41 | 49 |
| Parents or relatives | 4 | 4 | 33 | 56 | 4 | 3 | 38 | 53 | 3 | 4 | 34 | 58 |
| Counselors | 29 | 19 | 37 | 12 | 29 | 19 | 41 | 9 | 29 | 19 | 40 | 10 |
| Teachers | 25 | 18 | 45 | 9 | 31 | 18 | 43 | 6 | 33 | 19 | 40 | 7 |
| Employees in an occ. of interest | 26 | 15 | 41 | 15 | 27 | 17 | 41 | 13 | 27 | 17 | 40 | 15 |
| Former students | 58 | 16 | 19 | 5 | 58 | 14 | 23 | 3 | 64 | 12 | 18 | 3 |
| State employment counselors | 84 | 6 | 6 | 1 | 89 | 4 | 3 | 1 | 92 | 3 | 2 | 1 |
| Employers | 49 | 14 | 28 | 6 | 53 | 14 | 27 | 4 | 55 | 13 | 24 | 6 |
| College admissions officers | 74 | 9 | 11 | 3 | 79 | 8 | 9 | 1 | 80 | 6 | 10 | 2 |
| Armed forces recruiters | 73 | 10 | 10 | 4 | 72 | 11 | 11 | 4 | 81 | 9 | 6 | 2 |

 $^{^{\}rm a}$ All figures are percentages of responding students in the stratum.



Table 86
Frequency of Student Use of External Resources

| Stratum | | | | | | | | | | | | |
|---------------------------|-----------------|------|----------------|---------------|------------|------|----------------|---------------|-------|------|----------------|---------------|
| | 1 | N = | 1598 | | 2 N = 1555 | | | 3 N = 1729 | | | | |
| Source | Never | Once | A Few Times | Many Times | Never | Once | A Few Times | Many Times | Never | Once | A Few Times | Many Times |
| Public library | 35 ^a | 11 | 31 | 20 | 43 | 13 | 28 | 14 | 42 | 12 | 27 | 17 |
| State employment office | 77 | 10 | 8 | 2 | 84 | 8 | 5 | 1 | 87 | 6 | 4 | 1 |
| Regional career center | 79 | 8 | 7 | 2 | 88 | 5 | 3 | 1 | 84 | 6 | 6 | 2 |
| Local college | 65 | 13 | 15 | 4 | 70 | 13 | 13 | 2 | 73 | 11 | 12 | 2 |
| Private employment agency | 84 | 6 | 5 | 1 | 90 | 4 | 3 | 1 | 89 | 4 | 4 | 0 |
| Armed forces recruiter | 83 | 7 | 5 | 2 | 82 | 8 | 6 | 2 | 86 | 6 | 4 | 2 |
| Employer | 49 | 17 | 24 | 8 | 53 | 17 | 23 | 5 | 56 | 13 | 23 | 7 |

All figures are percentages of responding students in the stratum.

Figures do not add to 100 because "No responses" are not included in the table.



Table 87

Students' Perception of the Sufficiency of Their School Resources
to Supply All Desired Information, All Strata

| Opinion | Response |
|-------------------------------|----------|
| School resources sufficient | 32 |
| School resources insufficient | 36 |
| Not sure | 28 |
| Don't know | <1 |
| No response | 3 |

^{*}Percent of all responding students in all strata.





CHAPTER XIII

RESEARCH QUESTION D3

Question d3 is "What is the quality of these additional resources as compared to the quality of the school's resources?"

Where the additional resources reside at a district, county or regional resource center, they are generally the same categories of resources as exist in the schools. (See Table 84.) There will be differences in human resources (fewer teachers at the external center, for instance); and in resources of the K category there will be fewer school-arranged experiences at the external site. But in the main the informational materials will be alike.

Therefore one aspect of the question about the quality of external resources is answered: they are about the same quality as the corresponding resources at the school. Often they are better in the sense that a regional center with state support may be able to offer a wider variety of resources than a small school with mostly local support. When operated under the direction of professional staff, they may also be better because materials can be kept up to date, reviewed periodically, and catalogued for easy cross-referral. The regional centers we have looked at for this study have been impressive.

One aspect of quality is the degree to which resources are used. Measured by this yardstick, the external centers do not look so good. Only a little over 30 percent of the schools in the national sample observed that such centers provided substantial amounts of occupational information. Moreover, 84 percent of the students in the student sample indicated that they had never used a regional resource center. Only 6 percent of students responding to Question 48 said they got information about a specific occupation from such a center. Fewer than one percent of the students had obtained information from a regional center about five specific features of a selected occupation: education and training, wages and salary, job security, opportunities to help others and activities on the job. Thus, from the perspective of usage, the quality of the centers is diminished. We can only speculate about why they are not used more. Perhaps they are regarded as unattractive or hard to get to.

It is possible to say something about the quality of external resources whose content can be inspected, such as materials at a regional center or public library. What is to be said about the quality of resources whose content is private? A few comments may be made about specific resources of this type, with some additional comments about them as a class.

The 23 specific external resources were listed in Chapter XI (Question d1). Of these numbers 10 and 11 are the public library and the regional center, which were discussed immediately above. Numbers 4 and 12 (employment service representative and state employment office) and 14 (a private employment agency), none of them used much, are likely to yield good information about immediate job availability for a limited number and range of jobs. Users may



also receive some "counseling," but emphasis is on employment not on the broader concerns that are associated with the words career or guidance.

Numbers 7 and 13 (college admissions officers and a local college) may provide useful information for college-bould students about educational opportunity and availability of financial aid. College admissions officers are likely to be poor sources of occupational information; that is not their specialty. As a recruiting device, some local colleges offer guidance to students in feeder high schools and some have placed computer terminals in high schools or have invited high school students to come to the college. In these cases the quality of occupational information may be relatively good.

Numbers 8 and 15 (armed forces recruiters and armed forces recruiting offices) are doubtful sources for information about civilian occupations and careers. (See Hoppock, 1976, p. 44.) The business of these sources is to recruit for the armed services. The recruiting practices have been severely criticized for misleading students into believing that military training is more readily transferable to civilian work than is actually the case. Number 6, employers, are also of mixed utility. They are obviously good sources for information about earnings, hours, duties, work environment, physical demands, fringe benefits, entry requirements and some other aspects of a narrow range of occupations. They are likely to be poor sources of information about other aspects of the occupation, and (if one can judge by the literature published and distributed free to the schools by some industries) they are likely to present a much rosier picture of employment with their companies than the facts warrant.

Of the activities outside school, items 19, 20, and 22 on the list in Chapter XI are likely to be actively misleading. Most TV shows, movies, and novels distort the occupations they deal with for dramatic effect. Police officers, for example, tend to be unbelievably heroic or victous depending on the theme of the entertainment. Even documentaries tend to distort because they have to focus on a small segment of the whole canvas. Fortunately, few students admit to getting specific information from these sources. The worst cases were about two percent for information about job activities from TV; for movies, it was a little more than one half of one percent.

Watching people at their work (number 18) has great utility in a narrow area of occupational information, the work environment — tasks and duties, special tools and equipment, working conditions and physical demands. (See Hoppock, 1976.) Additional information can be inferred — about aptitudes and educational/ training requirements. But the range of information is limited. The same problem exists for work itself (Item 17). Much more is learned about the occupation, and in a very intensive way, but despite the immediacy of the information to be gained from work, there are whole areas not covered, particularly long-range outlook, routes to advancement, personal satisfactions, school programs, and sources of further information. We noted in Table 82, Chapter X, that work ranked just below counselor referrals as an effective motivator.



Of the personal sources not already discussed, former students (Item 5) are an attractive and useful resource not much used. (See Hoppock, 1976, p. 190.) As we saw in Table 48, only 57 percent of the schools have a staff member responsible for making data available on jobs held by former students, job descriptions prepared by former students were available in only three percent of the schools. Obviously, the quality of information from this resource will be quite limited in range, but is expected to have much impact.

This leaves items 1, 2, and 3 -- parents of relatives, friends, and someone in the line of work that a particular student is interested in. We saw in Table 85 that these three informal resources are the most frequently named as persons whom studies have talked with about occupations. Parents or relatives and omeone in the line of work are also among the most frequently named sources of five topics of specific information. (See Table 73.) Of these, someone in the line of work is in the best position to offer accurate information of limited scope. Like work itself as a resource, the employee will be better informed about some things than about others; he or she cannot be informed, for example, about all the subjects that were examined to determine the content of information resources for Tables 10, 11, 12, 13, and 15 of this study.

quality of parents, relatives, or friends as sources of occupational information seems more suspect. Of course these people may be "someone in the line of work," in which case the quality of their knowledge might be good but, as we have seen, limited. But if we assume they are not someone in the line of work, we have to ask how accurate and broad their information can be. The danger to the student is twofold: the parents or friends may be misinformed about the occupations they "know" about, and the number of occupations they are aware of may be very restricted. To the extent that these sources motivate students to look for occupational information elsewhere, their quality may be good; to the extent that they supply the information itself, the quality seems doubtful.

These informal resources are nowever, probably the only source of occupational information for some students. Although the schools cannot control the sources, they can do some things to offset possible distortions with accurate information from the marketplace. The table below isolates some of the career information resources named in Question II of the school instrument that serve as a vehicle for communication between the immediate work environment and students. They can all be monitored or arranged by the schools.

| | Resource | Percent of Schools (National estimate) Having Resources |
|-----|--|---|
| B13 | Write-ups of jobs held by former students | 3 |
| E2 | School prepared lists of employers, | |
| | speakers, contact persons | 37 |
| к3 | Exploratory work experience | 58 |
| K4 | Career days, speakers, assemblies | 75 |
| к7 | Job site tours or visits | 59 |
| KВ | Job shadowing (in-depth observation of worker) | 16 |
| К9 | Conferences with community representatives (employed | |
| | alumni, workers, employers) | 40 |

Greater investment in these kind, of resources seems justified.

We may generalize about these informal external resources by distinguishing between intensive and extensive information. The informal resources all tend to provide intensive information. They shine a bright light into a small area and illuminate it in a way that books and sorting cards cannot match. As Hoppock (1976) has observed, "No amount of reading and talking about jobs in a chemical laboratory will leave the lasting impression of one whiff of hydrogen sulfide" (p. 183). What informal resources lack is extensive information. They are limited in the number of occupations they can inform about, and they are limited in the number of aspects of those occupations they can cover. Their quality is consequently reduced as judged by the requirements for career decision making.



CHAPTER XIV

IMPLICATIONS

This study is the first of two, the second being a comparison of the effectiveness of six different types of delivery systems in twelve of the schools that participated in the first survey. The two studies are obviously linked, Study 1 being largely descriptive and Study 2 largely evaluative. Therefore, lacking the outcomes of Study 2, we do not intend in this chapter to speculate deeply about the implications of the findings set forth in the previous chapters. We hope that some of the questions left unanswered here will be answered from the analysis of Study 2.

Availability of Resources: School Questionnaire

Positive aspects. Confining ourselves for the moment to the school questionnaire, we get an impression that looks generally encouraging. The small number of "Other" responses on Question II makes it appear that the resources specifically named in that item constitute almost the complete universe of career information resources offered to students by the schools. There is a wide variety of offerings—13 categories, 130 separate items. They range from six cate ories of publications to computer systems, to activities, to contact with educational professionals.

Of course, no school has everything, and many schools provide very little. Only about a quarter of the schools in the sample have a computer system of any sort; only 18 percent use simulations. Yet, if we extract the ten most common resources from the list in Table 9 (Chapter II) and look at the percentage of schools that have them, we find that the select group includes items from 5 of the 13 different categories and that the item ranked tenth (job-site tours) is available in 59 percent of the schools. The most common resource of all, the Occupational Outlook Handbook, is found (often in multiple copies) in 92 percent of the schools. The top ten with the percentage of schools nationwide that use them (i.e., the national estimate) are shown below.

| Occupational Outlook Handbook | 92 |
|--|-----|
| Conferences with counselors | 83 |
| Dictionary of Occupational Titles | 83 |
| Career days, speakers, etc. | 75 |
| Occupational handbooks for the military | 75 |
| Vocational school directories | 74 |
| Externally produced AV materials | 71 |
| College directories arranged by occupation | 70 |
| Occupational information units in subject | 62 |
| matter courses | 5.0 |
| Job site tours | 59 |



Management of the resources is generally in the hands of professionals—the director of guidance and staff or the coordinator of career education and staff. Principals play an important role in planning expenditures, but a much smaller role in other management activities. Teachers and librarians may take responsibility for some management functions for which they seem qualified—teachers for supervising work—experience programs, librarians for maintaining indices of available resources and for reviewing materials for obsolescence. Over 60 percent of the schools signify that they have a staff member who serves as a director or head of career guidance, and fewer than six percent of the schools nationwide said that they did not have a full—time equivalent guidance counselor employed at the school.

Responses to the school questionnaire also suggest that help from professionals is available to students who seek it. No school indicated that this task was not performed. Although counselors spend less than a quarter of their time with students discussing occupational choice and career planning, roughly two-thirds of the counselors indicate that "a great deal" of this block of time is spent in directing students to general and specific occupational information or in answering students' questions about occupational information, that is, they were serving as information resources. In addition, more than half the counselors said that they spent a great deal" of this career counseling time in guidance—interpreting occupational information and assisting students with career decisions.

If quality is construed in terms of coverage, the checklists in Tables 10, 11, 12, and 15 suggest that students could, 1f they chose, satisfy their curiosity about very many aspects of occupations by consulting an appropriate publication, computer system, or VIEW microfiche. Additional information would be forthcoming from the categories of resources whose content cannot be summarized in checklists--experiential activities, contacts with staff or employed persons, needlesorts, simulations, AV materials. And of course still more information, much of it of dubious quality, might come from informal sources--friends, parents, and the chance encounters of life. When one remembers that 92 percent of the schools have at least the Occupational Outlook Handbook and when one looks (Table 10) at the coverage of that publication, one might conclude that American high school students have a fair shake at locating occupational information if they want it. And when one compares the checklists shown in Tables 10, 11, 12, and 15 with various standards end guidelines promulgated by the National Vocational Guidance Association, the National Occupational Information Coordinating Committee, and the Association of Computer-Based Systems for Career Intormation, one might be likely to conclude that much of the available information must be of righ quality.

Negative aspects. There are, of course, some disturbing lindings from the school questionnaire. It 92 percent of the schools have the Occupational Outlook Handbook, there are eight percent that do not have it.



That translates into about 1,400 schools throughout the country whose students do not have access to this most common resource (although they may have access to something else). There are other findings that cause misgivings. Almost six percent of the schools (over a thousand schools across the nation) do not have a full-time equivalent guidance counselor and 35 percent have no one serving as a director of guidance. Over 40 percent of the schools have no formal arrangement whereby current students can get feedback from former students. About 30 percent of the schools do not review their career information materials for obsolescence as often as once a year. Many resources are used only a fraction of the time they are available. The schools (or rather, the persons filling out the questionnaires for the schools) occasionally recommended the Occupational Outlook Handbook for functions it was not designed to perform, either because they were unaware of the volume's limitations or because their schools lacked a more appropriate resource. And for many specific needs they could not think of any resource.

Quality of Resources

A deeper study of the quality of the resources goes beyond the checklist approach and asks how well the information reflects the actual conditions of the occupation. The results of the closer look are disquieting. Some portions of occupational information, particularly the part linking personal attributes with those or the occupation, appear "soft" and beset with contradictions. Without repeating the observations made in Chapter III (especially the sections titled "Structure of Occupational Information" and "Procedures"), we may note here that the Dictionary of Occupational Titles and its companion piece, the Guide to Occupational Exploration, are inconsistent or confused or ill-conceived or overly simplistic in their treatment of the levels of skill for Data, People, Things, and their treatment of interests, aptitudes, and temperaments. Unfortunately, these weaknesses appear in the DOT Data Display Tape, which is the source of information for numerous other career resources. They are picked up by some computer-based guidance systems, where their presence is particularly unfortunate because these systems are designed to provide the very linkages this class of information is concerned with. Consequently, the list of occupations that students retrieve from structured access to these systems is likely to be far more arbitrary than the students realize. (xcupations that in fact may meet the students' specifications with respect to interests and abilities, say, may not make the list--not because of any inherent deficiency in the occupations but because of the chaetic way these linkages are treated.

Use of Resources. Student Questionnaire

The implications of these findings carnot be viewed in isolation. The school questionnaire has shown what resources are available at school



to the majority of students if they want occupational information and know what information to seek. Now let us look at the student questionnaire to see how students use these resources, whether they use other resources not associated with the schools, and which resources they depend on for career information.

There is considerable evidence that the resources students use most (but by no means exclusively) are not those provided by the school. For convenience, we may label the school resources formal. These are the resources listed in Question II of the school questionnaire consisting of 13 categories and 130 different items plus uncounted 'Others." They are formal in the sense they were compiled or arranged in accordance with some established design, methods, models, or forms and are made available to students through regular arrangements by schools. The checklists in Tables 10, 11, 12, and 15 show the formal nature of three types of these resources. All other resources such as unplanned encounters with parents and friends and TV shows, are informal. What we are saying 1s that students seem to use informal resources more than formal ones.

There is some evidence for this assertion. Parents or relatives and friends ranked one and two among the causes of students' looking for occupational information. The formal resources, designed with that activity in mind, ranked considerably lower. They were the compulsory classroom assignment, counselors, talks or lectures, and films. These formal resources were followed in rank by more informal ones—TV shows and movies.

Parents or relatives, friends, and employed workers ranked one, two, and three as persons students had talked with about occupations. Counselors and teachers—formal resources by our definition—lagged far behind.

Fewer than one-third of the students thought the formal resources at their schools were <u>sufficient</u> in the sense that the resources supplied all the information the students desired, 36 percent called the formal resources insufficient, and another 28 percent were not sure.

When it comes to specific pieces of information—that is, information that answers a specific question about an occupation—we find that informal resources are used just as often as the formal ones. Parents or relatives and someone in the proposed line of work were named as frequently as formal publications, and considerably more frequently than counselors and teachers, as the source of information about the education and training requirements for entry into an occupation the student was considering, information about its earnings, information about its job security, information about the opportunity it provided to help others, and information about the activities the work entailed. Work and watching people at work (informal resources) were also named as sources of information. No single resource, formal or informal, was named by more than 17 percent of the students.



-250**-**

Disregard for formal resources also appears in the tallies of student usage. Various kinds of publications fare best in this respect, probably because of the great variety of publications that exist and the ubiquity of the Occupational Outlook Handbook. Although reference books have been used at least once by almost 80 percent of the students, fewer than half the students have used them more than once. Magazines are used a little less frequently than reference books, pamphlets and briefs less than that, and reports from former students (not widely available) hardly at all. (See Table 65, Chapter VIII.) Half the students who are aware that their school has a computer terminal have never used it (Table 66), and the same figures apply to microfiche (e.g., VIEW) (Table 68). Sorting cards or needlesorts, found in about 40 percent of the schools, have never been used by about 35 percent of the students who are aware of them, and have been used more than once by only another 35 percent (Table 69). Although more than 60 percent of the students have been exposed to a film or other audiovisual medium for career information, fewer than 50 percent of them have ever participated in any of the other eight experiential activities listed in Table 71, including career days (offered by over 75 percent of the schools) and courses in career planning (offered by over 40 percent).

The ratio of use to time available is also discouraging. We cannot obtain the ratio for publications because of the enormous variety of these resources, nor for experiential activities because of the obstacles to determining availability. But the ratio can be calculated for computers, AV materials, microfiche, and needlesorts (Tables 58 and 61). The computer terminals are used less than half the time the are available, and all of the others less than a quarter of the time.

Figures on usage may be interpreted in more than one way. For example, if a school has many different kinds of resources, the total usage might be quite high but the use of any single resource quite low, also, the percentage of idle time would appear high, creating the false impression that the resources were not being used much. A certain amount of redundancy is desirable so that students do not have to wait. But taken in conjunction with the students' own teports of the role of informal resources in their career thinking the usage figures seem to confirm the view that students do not take full advantage of the formal resources. Although the immediacy of information from an informal resource may lend it vividness and intensity, young persons in high school need extensive information as well so that they can make choices, set goals, and formulate plans.

Providing a Context for Career Information

Why don't students get more of their information from formal resources? Perhaps Study 2 will turn up some answers. Pending the completion of that undertaking, we are left with whatever surmises we can derive from



the school and student questionnaires. We siggest tentatively that one of the problems students have when they encounter the mountains of formal resources is the lack of a usable context in which to place the information. The information they need is presumably there--somewhere in all those volumes and magazines and films and computer disks and people's heads. But how are the students to know what they need? And, once they do know, how are they to dig it out? They are in the position of writers who know that the dictionary contains the exact word for their thought but do not know how to spell it or pronounce it. It is not practical to go through the dictionary column by column from a to zymurgy, or through the Occupational Outlook Handbook page by page from Patternmakers to The Armed Forces. Actually the wordless writer is better off than the students, for the writer is at least aware of a need that can be supplied from a specific resource, students "often don't know what information they need, don't have what information they want, or can't use what information they have" (Katz, 1963, p. 25). In short, it seems to us that students need a context of guidance if they are to be induced to grapple with the large store of information that is available to them.

This is not the place to go into theories of guidance or to advocate one theory over another. We wish to use the term guidance loosely to mean a medium of assistance. Guidance helps individual students determine what questions to ask, helps them decide what information will answer the questions and where the information resides, helps them structure the information and interpret it, and, at its best, helps them arrive at a strategy for making decisions based on information.

There is some indication from the study that students do not find this context of guidance in their formal resources. When students were asked what they were seeking when they used a resource, over 70 percent of them said prerequisites for entry into the job, and over 50 percent said wages and salaries. This response pattern was independent of the resource the students were using. Last place on the list of purposes was invariably occupied by information about the satisfactions from the job. One would expect that a context of guidance might produce a different pattern with more concern about long-range needs, such as satisfactions, and less concern with short-term needs, such as earnings and educational prerequisites. We may recall, too, that 28 percent of the students who assessed the adequacy of their school resources said they were not sure. So much uncertainty suggests that the students did not know what information to look for and therefore were unable to assess its quality. We tenember also that whoever filled out the school questionnaire (usually a counselor) was often unable to think of a suitable resource to meet needs clearly associated with guidance—for information about opportunities to help others or job security or accessibility of occupations to the bundicapped or lists of occupations meeting multiple specifications. The schools, moreover, did not often name courses in career planning, cupational units in subject classes, or career days as resources for



-252-

arousing students' interest in exploring occupational information, nor were counselors often suggested as a resource for any specific purpose, even though over 80 percent of the schools regard conferences with counselors as a weapon in their arsenal. Finally, we note (Table 70) that nearly half the students in the sample had never talked with a counselor about occupations; nearly 40 percent had never talked about preparing for an occupation.

These findings are not conclusive, but a strong argument could be based on them that neither a schools nor the formal resources provide the context of guidance that would help students identify, locate, and process the occupational information they need. Where, then, is such a context to be found?

Revising Resources As a Partial Solution

The implications of this statement are twofold: (1) Can the schools be adapted to provide the needed context? (2) Can the resources themselves be designed to accomplish this end?

Pending the outcome of Study 2, we do not wish to dig deeply into either alternative. It is safe to point out, however, that reorganizing the career resources is much easier than reorganizing the schools. For over a decade, ever since U.S. Commissioner of Education Sidney P. Marland proposed that all education be thought of as preparation for a career, the federal government has been plowing money into the schools to toster this idea. And not without effect, but obviously the process of change in the schools is slow. Working directly on the resources seems likely to produce quicker results.

Correcting deficiencies. Some of the prescriptions for change can be interred from Chapter III. Clearly, the deficiencies in information should be corrected in the Dictionary of Occupational Titles, the Occupational Outlook Handbook, and the Guide to Occupational Exploration. These are seminal volumes whose errors breed true or even multiply in their numerous offspring. But, as with the schools, changing these resources is a slow process: there was, for example, a span of 12 years between the third and fourth editions of the Dictionary of Occupational Titles.

Providing linkages. Another improvement in resources would be provision of linkages between occupational attributes and individual attributes. It is hard to tell the extent to which these linkages can be successfully established when the occupational information is stored in a necessarily linear medium, such as a publication. Needlesorts may serve the purpose, although they have the disadvantage of making information retrieval an awkward two-step process.



Improving computer-based systems. It seems to us that computer-based delivery systems offer a more feasible solution to the problem of providing a context for information. If as we suspect, the required context consists in organizing occupational information to meet the wildly various needs of myriad different individuals, the computer is very nearly the only resource capable of doing it. Publications, AV materials, and microfiche are hampered by their linearity. Experiential activities, although vivid, are haphazard and limited in scope. Human beings cannot be expected to remember and process information in the amounts required, they have better things to do. But the raison d'être of computers is to structure and restructure information to serve multifarious needs.

But there are problems with many of the computer systems examined in this study despite their conformity to thoughtful guidelines like those of the Association of Computer-Based Systems for Career Information (ACSCI) and the National Occupational Information Coordinating Committee (NOICC). The guidelines are mainly concerned that specific classes of information be included in the systems. They have tacitly assumed that information taken from the Dictionary of Occupational Titles would meet their standards for quality for information that was not volatile. This was a reasonable assumption considering the reputation enjoyed by that volume and the painstaking care that goes into its preparation. But, as we saw in Chapter III, some of the information is much softer than the rest, and the softness may become mush when the information is picked up and used thoughtlessly in other resources. Perhaps hard information about some aspects of occupations is an impossible dream. For instance, the cognitive abilities required for successful performance in most occupations may be so broad . to defy differential predictions in any useful way. Groups that estublish guidelines such as ACSCI and NOICC, could insist that information about ability requirements be clearly identified as tentative and judgmental, unless its validity has been established by solid research. It should certainly not be treated as dogmatically as it is now.

The guidelines could also do a service by bringing uniformity to the treatment of interests, temperaments, and abilities. These constructs are used inconsistently by various systems and sometimes within a single system, almost as if they were interchangeable. Interests are especially slippery because they are treated as present or absent rather than rated on a continuous scale, and because occupations whose activities straddle several different fields of interest are classified in only one of them.

Guidelines could also suggest that designers of systems play fair with their users by making explicit the assumptions that underlie the sistem's structure. One example of failure to do this has already been discussed—the treatment of soft information in the same way as hard, as if decisions could be based on one with just as much confidence as on the



-2542 -2542 other. Data on earnings may be entered into a system at different times for different occupations, leaving the user with the impression that all the information is comparable. It should be clearly dated or inflation factors should be applied to make all information of this class contemporaneous. Projections of outlook, such as those found in the Occupational Outlook Handbook, also require clarification, shift in emphasis from growth to total demand, and more attention to projections of supply. Perhaps the most serious deficiency is the failure of many systems to distinguish between aptitudes, interests, and values, even though research has established that they occupy distinct domains. When interests are used to retrieve occupations tacitly regarded as desirable, interests are at that moment being treated as if they were a universal value. The undeclared assumption is that the retrieved occupations have more worth--i.e., more value--than ones not retrieved. But this assumption is unwarranted if the user is looking for high income from an occupation, or prestige, or several other satisfactions alone or in combinations. The same observation is true of several other retrieval techniques -- say, matching worker traits with characteristics of the user or requirements with abilities. The unstated assumption that the retrieved occupations are more desirable may be true much of the time, but it cannot be true for all users. The assumption should be made clear.

The guidelines could make computer systems more attractive and useful if they established minimum levels of interactivity. This statement applies to computer-based information systems as well as guidance systems. A system that prints or displays an asterisk or question mark and then sits silently waiting for a response is hard for naive students to use. What on earth does the computer want? The answer is in a little booklet beside the terminal, if the previous user has not carried the booklet away with him. What the computer wants is input in the form of a code. the code is logical and contains mnemonics, but there are many different symbols in it. It is like unfamiliar words that must be looked up before reading can proceed. Students cannot go from file to file without interrupting the flow of what they are doing. If they used the system every day, they would soon master the vocabulary of the code and with it the system. But, as we saw in Chapter VIII, only one system was used as much as 50 percent of the time by students unassisted. The person ablisting the student was usually a counselor (Table 56). In a large number of instances, students never personally used the system at all; they passed their requests on to someone else, who then sat at the terminal, got the desired information, and took it back to the student. Surely such a cumber ome arrangement, which is Essentially a one-on-one counseling situation that ties up the counselor as well as the terminal, is a deplorable use of the computer. It makes the computer a barrier instead of facilitator. The virtue of computers is the immediacy of their response and their ability to structure information uniquely for each user. This virtue is much diminished if the student, like a visito: in a foreign land whose language is unknown, must look up every



phrase in the codebook or appeal for help from another person--and an authority figure at that.

Finally, if computers are ever to bring students into closer contact with formal resources, there must be more terminals in the schools. Of the schools that had terminals at all, the overwhelming majority had only one. Given the problems of scheduling classes, this is not enough even in a small school and even if the additional terminals are idle part of the time. Difficulty of access must surely inhibit use. We saw that only half the students who were aware that a terminal was at the school actually used it even once. We do not know why this situation exists, but part of the explanation must be difficulty of access to the single terminal.

The lack of termine cannot be remedied by revising guidelines. But the steady decline in the lost of hardware and the advent of mass storage for microcomputers offer hope of improving the situation.



251

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ABBREVIATIONS AND ACRONYMS USED IN THIS REPORT

Association of Computer-Based Systems for Career Information AEL. Appalachia Educational Laboratory ΑV Audiovisual Computerized career information delivery system CCIDS CDM Career decision-making Committee on Evaluation and Information Service CEIS CETA Comprehensive Employment and Training Act Computerized Heuristic Occupational Information and Career CHOICES Exploration System CIS (Oregon-based) Career Information System (a computerized system) Career Information System of Iowa (a computerized system) CISI Colorado Career Information System (a computerized system) COCIS Coordinated Occupational Information Network (a computerized system) COIN Computerized Vocational Information System CVIS DOT Dictionary of Occupational Titles Educational Testing Service ETS F Finger dexterity as measured by GATB Federal Education Data Acquisition Council FEDAC FTE Full time equivalent G Intelligence or general learning ability as measured by GATB GATB General Aptitude Test Battery Guidance Information System (a computerized system) GIS Guide for Occupational Exploration GOE

KPR Kuder Preference Record

ACSCI

Manual dexterity as measured by GATB

Motor coordination as measured by GATB

Minnesota Career Information System (a computerized system) MCIS

Market Data Retrieval MDR

Minnesota Multiphasic Personality Inventory MMPI

Massachusetts or Michigan Occupational Information System (computerized MOIS

systems)

Numerical ability as measured by GATB N

Government (salary) scale



GS

K

М

Nebraska Career Information System (a computerized system) NCIS National Institute of Education NIE National Occupational Information Coordinating Committee NOICC National Vocational Guidance Association NVGA Occupational Aptitude Pattern OAP Ohio Career Information System (a computerized system) OCIS ООН Occupational Outlook Handbook Occupational Outlook Quarterly 000 Ohio Vocational Interest Survey OVIS Form perception as measured by GATB P Clerical perception as measured by GATB Q Spatial ability as measured by GATB S Self-Directed Search SDS System of Interactive Guidance and Information (a computerized SIGI system) Standard metropolitan statistical area SMSA Standard Occupational Classification SOC State Occupational Information Coordinating Committee SOICC Science Research Associates SRA Strong Vocational Interest Blank SVIB United States Training and Employment Service USTES Request for a proposal RFP Verbal ability as measured by GATB Vocational or Vital Information for Education and Work (a system VIEW

WCIS W

using microforms)

Wisconsin Career Information System (a computerized system)

WOIS Washington Occupational Information System (a computerized system)



APPENDICES



APPENDIX A

Career Information Systems in Secondary Schools

A National Survey of Occupational Information Resources

Agency affiliation:
National Institute of Education
National Occupational Information
Coordinating Committee
Educational Testing Service
The College Board
Mathematica Policy Research

This report is authorized by legislation (20 USC 1221e). While you are not required to respond, your cooperation is needed to make the results of the survey comprehensive, accurate and timely



The National Institute of Education (NIE), using funds transferred from the National Occupational Information Coordinating Committee (NOICC), has contracted with Educational Testing Service, the College Board, and Mathematica Policy Research to study occupational information resources for grades ten, eleven, and twelve in a sample of our nation's secondary schools. NOICC will use the results of the study in recommending legislation to the United States Congress and in other actions to improve career information and programs for secondary school students. Your participation is crucial to ensure that this voluntary study provides an accurate description of the occupational information resources available to youth. Your answers will be strictly confidential.

Part A (printed on blue paper) is quite brief and contains questions about the general characteristics of the school. Part B contains specific questions about occupational information and is intended for the director of career guidance or other member of the school staff who is most knowledgeable about the occupational information resources of the school. The principal may answer Part A or refer it to the staff member as he or she prefers.



A

General Information

To help us interpret responses to the remainder of the questionnaire about occupational information resources, we would like some general information about your school.

| | a grade level listed, cir | | owing grade levels. (If your school does not have |
|-----|--|---|---|
| | C | rade 10 | NA |
| | C | irade 11 | NA |
| | C | rade 12 | NA |
| Q.2 | Approximately what pe with each of the follow grade levels only. | rcentage of 10th, 11th, and 12th g ring curricula? <i>In extimating the p</i> | grade students in your school can be identified percentages, please consider students in these |
| | C | Seneral | % |
| | | cademic or college preparatory | 4 , |
| | • | ocational — Technical | |
| | C | Other (Specify): | |
| | | | % |
| | | | |
| | | 7 | Total = 100% of 10th, 11th, and 12th grade students |
| Q.3 | Approximately what pe | | Fotal \approx 100% of 10th, 11th, and 12th grade students a 10, 11, and 12 in your school are: |
| Q.3 | | | , |
| Q.3 | | rcentage of the students in grade: | s 10, 11, and 12 in your school are: |
| Q.3 | , | rcentage of the students in grade: merican Indian or Alaskan Native? | s 10, 11, and 12 in your school are:% |
| Q.3 | E | rcentage of the students in grader American Indian or Alaskan Native? Asian or Pacific Islander? | s 10, 11, and 12 in your school are:%% |
| Q.3 | , , E | rcentage of the atudents in grades imerican Indian or Alaskan Native? isian or Pacific Islander? illack (not of Hispanic origin)? | s 10, 11, and 12 in your school are:%% |
| 0.3 | , , E | rcentage of the students in grader American Indian or Alaskan Native? Asian or Pacific Islander? Black (not of Hispanic origin)? Hispanic? White (not of Hispanic origin)? | s 10, 11, and 12 in your school are:%%% |
| | £ | rcentage of the atudents in grader american Indian or Alaskan Native? Asian or Pacific Islander? Black (not of Hispanic origin)? White (not of Hispanic origin)? | s 10, 11, and 12 in your school are:%%%%% |
| | Approximately what p | rcentage of the atudents in grader american Indian or Alaskan Native? Asian or Pacific Islander? Black (not of Hispanic origin)? White (not of Hispanic origin)? | \$ 10, 11, and 12 in your school are: |
| | Approximately what p | rcentage of the students in grades smerican Indian or Alaskan Native? sian or Pacific Islander? slack (not of Hispanic origin)? Hispanic? White (not of Hispanic origin)? 7 ercentage of the 10th, 11th, and | s 10, 11, and 12 in your school are: |



| Force | illed in a regular two-year or four-year college | % | NA |
|--------------------------------|--|--|---|
| | biled in another post-secondary school (for | | |
| | aple, business, vocational) | | NA |
| In as | n apprentice or work-training program. | | NA |
| ln m | ilitary service | | NA |
| Emp | oloyed full-time | % | NA |
| Une | mployed, but seeking work | % | NA |
| 8 Of students w | ho enter the tenth grade, what percentage (| ROPS OUT | before graduation? You |
| estimate will b | e tine. (Do not include students who transfer t | o another ac Circle C | |
| | 0 - 14% | 1 | |
| | 15 - 29% | 2 | |
| | 30 - 49% | 3 | |
| | 50% or more | 4 | |
| | | | |
| | Don't know | . DK | |
| 7 Counting both | School has no 10th grade | NA | ME EQUIVALENT profes |
| guidance cour | | NA any FULL-Til guidance) a valents.) | ME EQUIVALENT profes |
| guidance cour (For exemple, | School has no 10th grade full-time and part-time counselors, how makelors (that is, those with state certificates in 3 half-time counselors equal 1.5 full-time equi- | NA any FULL-Tii guidance) ai raients.) | re employed at your sch |
| guidance cour (For exemple, | School has no 10th grade full-time and part-time counselors, how makelors (that is, those with state certificates in 3 half-time counselors equal 1.5 full-time equivalents | NA any FULL-Tii guidance) ai raients.) | re employed at your sch ER guidance? |
| guidance cour (For exemple, | School has no 10th grade full-time and part-time counselors, how makelors (that is, those with state certificates in 3 half-time counselors equal 1.5 full-time equivalents | NA support of the sup | re employed at your sch ER guidance? |
| guidance cour (For exemple, | School has no 10th grade full-time and part-time counselors, how make it is, those with state certificates in 3 half-time counselors equal 1.5 full-time equivalents Full-time equivalents one at your school who serves as director or h | NA support of the sup | re employed at your sch ER guidance? |



PART

Questions for Most Knowledgeable Staff Member

A Note On Our Terminology

We are aware that many different terms are used to refer to information about the world of work. In the following pages, we consistently use the term OCCUPATIONAL IN ORMATION. By this term we mean all data or experience that students can obtain to help them decide on and plan for future courses of action in the world of work. We do not include skill training or education to prepare for an occupation.

Section I - Management of Occupational Information

Q.1 Which of the following best describes your position or essignment?

| | Circle One |
|---|------------|
| Director of guidance | 1 |
| Coordinator of career education or guidance | 2 |
| Guidance counselor | 3 |
| Career education or guidance specialist | 4 |
| Principal or assistant principal | 5 |
| Vocational education teacher | 6 |
| Teacher of a non-vocational subject | 7 |
| Librarian | 8 |
| Other (specify) | |
| | 9 |

Q.2 How effective do you find each of the following methods for getting students to use the occupational information resources in your school?

| | | Circle one on each line | | | | |
|----|---|-------------------------|--------------------|------------------|--------------------|--|
| | | Very effective | Somewhat effective | Not effective | Method not used | |
| 2. | Counselor referrals | 1 | 2 | 3 | NA | |
| b | Teacher referrals | i | 2 | 3 | NA | |
| c | Bulletin board displays | 1 | 2 | 3 | NA | |
| đ | Announcements in school newspaper | 1 | 2 | 3 | NA | |
| c | Announcements in classrooms or assemblies | 1 | 2 | 3 | NA | |
| ſ | Group visits or orientations | 1 | 2 | 3 | NA | |
| 8. | Other (specify) | _ | | | | |
| | | I | 2 | 3 | NA | |



Q.3 What ONE person is primarily responsible for each of the following tasks in connection with occupational information at your school? (Circle NA if a task is not performed at your school.)

| | | Circle one on each line | | | | | | | |
|----|--|---|---------|---|---|-----------|--|-------|--------------------------|
| | | Principal or assistant principal | Teacher | Director of guidance or staff | Coordi- nator of career education or staff | Librarian | State, regional, or district staff member | Other | Tesk not performed |
| à. | Planning major expenditures (for equipment or other resources) | 1 | 2 | 3 | 4 | S | 6 | 7 | NA |
| b. | Evaluating new or replacement materials | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NA |
| ¢. | Helping students locate materials or advising on where to look for specific information on occupations | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NA |
| đ | Arranging for special programs, events or days | t | 2 | 3 | 4 | 5 | 6 | 7 | NA |
| ¢. | Supervising explora- tory work-experience programs | i | 2 | 3 | 4 | 5 | 6 | 7 | NA |
| f | Making data on jobs held by former students available to students | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NA |
| 8 | Deciding when to discard old and obsolete materials | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NA |
| h. | Maintaining index of occupational information materials | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NA |
| ı | Coordinating activities with external agencies that provide occupational information | ı | 2 | 3 | 4 | 5 | 6 | 7 | NA |

Q.4 To what extent do the professional guidance counselors in your school perform each of the following activities? (By professional guidance counselors, we mean those with state certificates in guidance.)

| | | Circle one on each line | | | | |
|----|--|-------------------------|----------|-----------------|---------------|--|
| | | No* | Somewhet | A great deal | Den't wens | |
| 4. | Directing students to books, symphlets, films, or other sources of GENERAL occupational information. | 1 | 2 | 3 | DK | |
| b. | Directing students to SPECIFIC sources of information for a particular occupation | ı | 2 | 3 | DK | |
| ¢. | Directly answering students' questions about occupational information | ł | 2 | 3 | DK | |
| đ. | Interpreting occupational information ob- tained by students | *** | 2 | 3 | DK | |
| ¢. | Assisting students with career decisions after they have used some of the occupational information resources available | 1 | 2 | 3 | DK | |

Q.5 If your school has a committee to review occupational information materials or programs, who are the members? (If your school has no committee, circle NA.)

| | Circle all that apply |
|--|-----------------------|
| We have no committee | NA |
| Principal | 1 |
| Guidance counselors | 2 |
| Career education staff | 3 |
| Students . | 4 |
| Teachers | 5 |
| Librarian . | 6 |
| Local employers, labor leaders, or community representatives | 7 |
| Regional or state agency representatives | 8 |
| Parents . | 9 |
| Other (specify) | |
| | 10 |

Q.6 Please estimate what percentage of the time spent with 10th-12th grade students by ALL your professional guidance counselors involves each of the topics listed below.

Consider the entire school year and the time of all counselors with state certificates in guidance.

| | Circle one on each line | | | | | | |
|--|-------------------------|-----------------|----------|----------------|---------------|--|--|
| Percentage of professional time with students involving: | 0 - 14% | 15 · 29% | 30 - 49% | 50% or more | Don't know | | |
| a. Choice of high school courses | t | 2 | 3 | 4 | DK | | |
| b. College admissions and selection | 1 | 2 | 3 | 4 | DK | | |
| c. Occupational choice and career planning | 1 | 2 | 3 | 4 | DK | | |
| d. Job placement | 1 | 2 | 3 | 4 | DK | | |
| e. Students' attendance, discipline and other school and personal problems | . 1 | 2 | 3 | 4 | DK | | |



Q.7 On the following list, circle any system used at your school for cataloguing, filling, indraing, shelving, or displaying occupational information resources. (You ma," have one system for publications, another for audio-visual materials, etc.)

| | | Circle all that apply |
|------------------|---|-----------------------|
| - | - Alphabetical by title of occupation. | 1 |
| | Type or level of education or training (college, apprenticeship, etc.) | 2 |
| | Related school subjects (math, history, etc.) | 3 |
| Your own | Interest fields (outdoors, mechanical, etc.) | 4 |
| grouping system | Type of industry or employer (electronics, transportation, etc.) | 5 |
| | Other (specify) | |
| L | | 6 |
| _ | - Dewey decimal system | 7 |
| | D.O.T numbers (e.g., Chronicle Guidance syste | em) 8 |
| | Work or worker trait groups (DOL or AEL system) | 9 |
| | Alphabetized D O T subject headings (e.g., Bennett system) | 10 |
| Prepared systems | SRA job-family classifications | 11 |
| | Categories used by vocational interest inventor (e.g., Holland, Kuder, Strong-Campbell) | nes 12 |
| | U.S.O.E. categories | 13 |
| | Standard industrial classifications | 14 |
| | U.S. Census classifications | 15 |
| L | Other (specify) | 16 |
| | None | 17 |

Q.8 Does your school have a central index by which a student can locate ALL the information available from various sources about a specific occupation or cluster of occupations?

| | Circle ane |
|-----|------------|
| Yes | 1 |
| No | 2 |



Q.9 How much did your school spend in the 1978-1979 school year for each of the following types of occupa-tional information resources? Please give your best estimate. (If a type is not available at your school, circle NA.) Circle and an each line

| | | Circle one on each line | | | | | |
|----|---|-------------------------|----------------|----------------|----------------------|-------------------------|------------------|
| | | Less than \$300 | \$300 \$499 | \$500 \$900 | \$1,000 - \$2,000 | More then \$2,000 | Not available |
| | Publications | 1 | 2 | 3 | 4 | 5 | NA |
| ь | Audio-visual | 1 | 2 | 3 | 4 | 5 | NA |
| c | Microfiche | 1 | 2 | 3 | 4 | 5 | NA |
| đ | Computerized information system | 1 | 2 | 3 | 4 | 5 | NA |
| e. | Non-computerized sorting materials (for example, needlesort, keysort) | ŧ | 2 | 3 | 4 | 5 | NA |
| f | Other (specify) | | | | | | |
| | | l | 2 | 3 | 4 | • | NA |

Q.10 Which of the following guides and indexes to occupational information resources are available at your school for ORDERING OR SELECTING guidance materials?

| | Circle all that apply |
|---|-----------------------|
| Career Guidance Index (Careers, Inc.) | ì |
| Career Index (Chronicle Guidance Publications annual directory) | 2 |
| Counselor's Information Service (B'nai-B'rith) | 3 |
| Current Career and Occupational Literature (Goodman) | 4 |
| Educators Guide to Free Guidance Materials | 5 |
| Guidance Exchange (annual digest) | 6 |
| Guide to Indexes as a Resource for Occupations and Careers (B nai B'rith) | 7 |
| Guide to Local Occupational Information (Employment and Training Administration tormerly Manpower Administration) | 8 |
| Index to Vocational & Technical Education (NICEM) | ý |
| Inform (APGA monthly newsletter) | 10 |
| Journal of College Placement (New Career Media) | 11 |
| NVGA Bibliography of Current Cateer Informatic (Triennial) | n 12 |
| Vocational Guidance Quarterly (current career literature section) | 13 |
| An index to materials available from an external career resource center | 14 |
| Publishers' catalogs | 15 |
| Other (specify) | |
| | 16 |
| None | 17 |



Q.11 A number of accupational information resources are listed in the three sulumns betwee. Which of these are available AT YOUR SCHOOL?

Please tircle the code next to each resource that is evallable at your school (Do not include additional resources that may be available from an external source, such as a district resource center.) The resources are grouped by category if your school has a recourse not included on the list, please enter its name in the space provided for its category.

| | Bound References | | Series of Books on Individual Occupations | | Audio-Vacual Materials |
|------------|--|------------|--|------------|---|
| Al | Occupational Outlook Handbook | DI | Opportunities in (VGM) | н | |
| Αž | Dictionary of Occupational Titles | D2 | Your Career in (Julian Newner) | H2 | Your own school-made slides, rapes cassettes, films, vidediapes |
| A3 | Guide for Occupational Exploration | D1 | Your Future in (Arto or Richards Rosen) | | Externally produced slides, tapes cassettes, films, videotapes |
| A4 | Encyclopedia of Careery and Vocational Guidance (Hopke) | D4 | Other (specify) | m) | Other (specify) |
| A3 | I Can be Anything Careers and Colleges for Young Women | - | | | Microforms |
| A6 | Employment Opportunities for the Handicapped | | THE PARTY CANADA CONTRACTOR OF | 11 | State or regional microfilm or microfiche (such as VIEW) |
| A7 | The National Apprenticeship Program | | List of Employers | 12 | Local microfilm or microfiche |
| A | Occupational handbooks of the military services | ΕI | Directories of businesses and industries | 13 | Other (specify). |
| A9 | Worker Trail Group Guide (AEL) | E2 | School-prepared card files or lists of employers, speakers | ., | Other (specify). |
| AIQ | Other (specify) | | or contact people | | |
| | | E 3 | Other (specify) | | Non-Computerized Sorting Materials |
| | Occupational Briefs and Kills | | | Ji | Keysori or needlesori (specify) |
| a ı | S'nai B'rith briefs | | Educational Directories for Occupations | 12 | Score interpretation guides for inventories or tests (specify): |
| 27 | Careers, Inc. 11 argo. Fl.) briefs kills | | | | |
| 8 3 | Caratysi pamphicis | * * | College directories arranged by occupations (e.g. College Blue Book Degrees Offered by College Subject) | ון | Other (specify): |
| 84 | Chronicle Guidance briefs/library | Γ2 | Vocational school directories to g., Covejos s Career and Voca- | | |
| 85 | SRA briefs/kits | | tional School Childe, and NCES Directory of Post Secondary Schools with Occupational Programs) | | School-Arranged Experiences |
| 86 | Occupational Guidance briefs (Finnes Co.) | F3 | A job training directory for your yield | ν. | • |
| 8, | Guidance Centre monography | | Other (specify) | KI | School courses in career planning |
| 34 | Job Fact Sheets (Alumnae Advisors Center now Center for | | | K2 | Occupational information units in subject matter classes |
| _ | Carcer Planning) | | The same of the sa | K) K4 | Exploratory work experience (co-op work-study, EBCE, etc.) |
| 8 9 | Vocational Biogra, 'ties | | Computerized Information Nations | K3 | Career clubs Career clubs |
| 810 | Occupational briefs published by your state or another state | C1 | CHOICES (Canadian System) | K6 | Volunteer service arranged by school |
| 811 | Pamphiets prepared by professional associations | G₹ | COIN (Coordinated Occupational Information Network) | K7 | Job suc tours or visus ffield irlus) |
| | Pamphiers prepared by private business (e.g. General Motors) | 63 | CVIS (Computerized Vocational Information System) | K8 | Job shadowing (in-depth observation of a worker) |
| | Write-ups on jobs held by your former students | (,4 | DISCOVER | k9 | Conferences with community representatives (employed alumn) |
| B14 | Other (specify) | 65 | GIS (Timeshare & Guidance Information System) | n 7 | workers, employers) |
| | - /Allendary /Allendary /Allendary | G 6 | Your state witem (including adaptation of other state system) | k 10 | Other (specify) |
| | Periodicals | €,7 | Your school or county system | | |
| ٠. | | 8,3 | Other (specify) | | |
| | Career World | | | | Simulations |
| C | Occupations in Demand | | | LI | Simulations (such as Singer or SRA Job Experience Kits, |
| C) | Occupational Outlook Quarterh | | | | whool prepared simulations) |
| C4 C3 | Real World Crul vervice exam bulletins (state and federal) | | | | Personal Contact With School Staff |
| | | | | | |
| € B | Other (specify) | | | | Conferences with counselors |
| 0.1 | | | | M2 | Assistance from other guidance staff |

| Q.12 | all: | Different counselors often prefer to use different resources to answer questions about the same topic. O all the resources you circled in Question 11, which would YOU be most likely to use to get ANSWERS TO QUESTIONS about each of the topics listed below? | | | | | | | | | |
|------|------------|---|----------------------------|--|--|--|--|--|--|--|--|
| | Pie res | Please use the code of Question 11 to record the resource you would use for each topic. If n resources are appropriate, enter NA. If you do not know which resource you would choose, or Resource you would use to answer questions about: | | | | | | | | | |
| | Res | source you would use to answer questions about: | Code | | | | | | | | |
| | a. | Education, training, licensing and certification requirements for entry into various occupations | | | | | | | | | |
| | b. | Employment outlook in various occupations over the next 5 to 10 years | | | | | | | | | |
| | c | Special aptitude, ability or skill requirements for various occupations | | | | | | | | | |
| | ú | Descriptions of work activities in various occupations | x_ | | | | | | | | |
| | e | The work environments in various occupations | | | | | | | | | |
| | f | The security and job tenure of various occupations | | | | | | | | | |
| | g. | Opportunities for helping others in various occupations | | | | | | | | | |
| | h | Accessibility of various occupations to the handicapped | | | | | | | | | |
| | i | The most up-to-date local wage and salary information | | | | | | | | | |
| | J | Occupations which meet or exceed students' multiple specifications (e.g., salary, interest field, security) | | | | | | | | | |
| | Pie | SES listed below? rase use the code of Question 11 to record the resource you would use for each purpose. It cources are appropriate, enter NA. If you do not know which resource you would choose, source you would use for the purpose of | I none of you enter DK. | | | | | | | | |
| | a | Arousing students' interest in exploring occupational information generally | | | | | | | | | |
| | a b | Familiarizing students with many occupations | | | | | | | | | |
| | | Giving students detailed information about an occupation with which they were already familiar | | | | | | | | | |
| | c d | Suggesting previously unfamiliar occupations for a student to consider | | | | | | | | | |
| | | Enablic poor readers to get information about occupations | | | | | | | | | |
| | e | Helping college-bound students select colleges with programs suitable for their occupational plans | | | | | | | | | |
| | g | Helping non-college-bound students select schools or training programs suitable for their occupational plans | | | | | | | | | |
| Q.14 | rat | | choice | | | | | | | | |
| Q.15 | o Of | the items you did NOT circle in Question 11, which two sources would you add at your school IF YOUR BUDGET PER- | | | | | | | | | |
| | | ease use the codes in Question 11 to record your first and sec- | | | | | | | | | |



Section III — Published Occupational Information Resources

Q.16 The questions in this section concern published occupational information resources at your school. Please indicate whether your school has occupational information in published form (that is, the types of materials in categories A through F of Question 11.

| | | Circle one | |
|-----|---|------------|------------------------------|
| Yes | - | 1 | Proceed to Question 17 |
| No | | 2 | Skip to Question 19, Page 11 |

Q.17 How many copies of the OCCUPATIONAL OUTLOOK HANDBOOK does your school have, and in what year were they published? Please indicate the number of copies opposite the year of publication.

| | Circle one on each line | | | | | | |
|-----------------|-------------------------|-----|-----|-------|------|--------------|--|
| | None | One | Two | Three | Four | Five or More | |
| 1978-1979 | 0 | ı | 2 | 3 | 4 | 5 | |
| 1976-1977 | 0 | 1 | 2 | 3 | 4 | 5 | |
| 1974-1975 | 0 | ı | 2 | 3 | 4 | 5 | |
| 1973 or earlier | 0 | l | 2 | 3 | 4 | 5 | |

Q.18 How often has your school reviewed its collection of publications on occupational information in order to remove obsolete materials?

| | Circle One |
|-----------------------|------------|
| Never . | l |
| Less than once a year | 2 |
| Once a year | 3 |
| More than once a year | 4 |



304

Section IV — Computerized Information Systems

Q.19 The questions in this section concern a computerized occupational information system. Please indicate whether your school has terminals or printers that enable you to get occupational information from a computer.

| Circle one | | | | | | | | |
|------------|--|--|---|--|------------------------|--|--|--|
| Yes | | | ı | | Skip to Question 21 | | | |
| No | | | 2 | | Proceed to Question 20 | | | |

Q.20 Did your school EVER have a computerized occupational information system?

| | Circle one | |
|----------|------------|----------------|
| Yes | 1 } | Skip to |
| No | 2 } | > Question 28, |
| Not sure | 3) | Page 13 |

Q.21 Approximately what percent of the usage of the computer-based information system at your school involves each of the following activities?

| | | Percent of usage |
|---|--|------------------|
| a | Students use a terminal by themselves to get information from the computer | |
| b | Staff assist students at a terminal to get information from the computer . | |
| ¢ | Staff get information from the computer for later transmission to students | 9, |

Q.22 To what year does most of the wage and salary information in your computerized occupational information system apply?

| | Circle one |
|-----------------|------------|
| 1978 - 1979 | 1 |
| 1976 - 1977 | 2 |
| 1974 - 1975 | 3 |
| 1973 or earlier | 4 |
| Don't know | DK |



| 2.23 | Are there | any terminals | for the | computerized information | system in your school? |
|------|-----------|---------------|---------|------------------------------|------------------------|
| | CHA NIGHT | | | Annibataireas illiaulitation | |

| | Circle one | |
|-----|------------|--------------------------------|
| (es | ı — | → Proceed to Question 24 |
| ło | 2 | → Skip to Question 28, Page 13 |

| Q.24 | How many terminals | are available in you | r school fo | use by t | he students | to get occup | ational informat | tion? |
|------|--------------------|----------------------|-------------|----------|-------------|--------------|------------------|-------|
| | | | | | | | | |

Q.25 Please estimate how many hours per day, ON THE AVERAGE, a terminal in your school is:

| | | Hours per day |
|----|--|---------------|
| ١. | AVAILABLE FOR USE by students to get occupational information? | |
| Ь | ACTUALLY USED by students to get occupational information? | |

Q.26 How are the students scheduled to use a computer terminal to get occupational information?

| | Circle all that apply |
|--------------------------------|-----------------------|
| Student-initiated request | 1 |
| Assigned by teacher | 2 |
| Assigned by guidance counselor | 3 |
| Other | 4 |
| Students are not scheduled | NA |

Q.27 Who is available to assist students in using the computer?

| | Circle all that apply | | |
|----------------------------------|-----------------------|--|--|
| Guidance counselor | 1 | | |
| Secretary | 2 | | |
| Other | 3 | | |
| Students can use it without help | NA | | |



Section V — Audio-Visual, Microfiche, and Non-Computerized Sorting Materials

Q.28 This set of questions concerns audio-visual, microfiche, and non-computerized sorting materials (for example, a keysort or needlesort). Please indicate whether your school has occupational information in ANY of these forms (that is, the types of materials listed in categories H through J of Question 11).

| | Circle one |
|-----|------------------------|
| Yes | Proceed to Question 29 |
| No | 2 |

Q.29 How often is there a review of your school's collection of occupational information in the form of audiovisual, microfiche, and non-computerized sorting materials in order to remove obsolete materials?

| | Circle one in each COLUMN | | |
|--|---------------------------|-------------------------|------------------------------------|
| | Audio-visual materials | Microfiche materials | Non-computerized sorting materials |
| Never | I | 1 | ı |
| Less than once a year | 2 | 2 | 2 |
| Once a year | 3 | 3 | 3 |
| More than once a year | 4 | 4 | 4 |
| Don't know | DK | DK | DK |
| This type of material is not available | NA | NA | NA |

Q.30 At your school, approximately how many occupations are covered by each of these types of materials?

| | Circle one in each COLUMN | | |
|--|---------------------------|-------------------------|------------------------------------|
| | Audio-visual materials | Microfiche materials | Non-computerized sorting materials |
| 20 or fewer | 1 | 1 | 1 |
| 21 10 100 | 2 | 2 | 2 |
| 101 10 200 | 3 | 3 | 3 |
| 201 or more | 4 | 4 | 4 |
| This type of material is not available | NA | NA | NA |

Q.31 How are students scheduled to use the audio-visual, microfiche, and non-computerized sorting materials?

| | Circle all that apply |
|--------------------------------|-----------------------|
| Student-initiated request | ŧ |
| Assigned by teacher | 2 |
| Assigned by guidance counselor | 3 |
| Other | 4 |
| Students are not scheduled | NA |



| Q.32 | How many filmstrip viewers tional information? | and cassette players does your school have for students to use to get oc cup a- |
|------|---|--|
| | (If none, please write in "0 | .") |
| | | Number of filmstrip viewers and cassette players (If "0," skip to Question 34) |
| Q.33 | Please estimate how many | hours per day, ON THE AVERAGE, a filmstrip viewer and cassette player is: |
| | | Hours per day |
| | | a AVAILABLE FOR USE by students to get occupational information? |
| | | b ACTUALLY USED by students to get occupational information? |
| Q.34 | How many microfiche view tional information? (If none, please write in "0 | ers or reader-printers does your school have for students to use to get occupa- |
| | | Number of microfiche viewers or reader- (If "0," skip to Question 37) printers |
| Q.35 | Please estimate how many | hours per day, ON THE AVERAGE, a microfiche viewer or reader-printer is: |
| | | Mours per day |
| | | a AVAILABLE FOR USE by students to get occupational information? |
| | | b ACTUALLY USED by students 10 get occupational information? |
| Q.36 | To what year does most o | f the wage and salary information in your microfiche apply? |
| | | Circle one |
| | 1978 - 1979 | 1 |
| | 1976 - 1977 | 2 |
| | 1974 - 1975 | 3 |
| | 1973 or earlier | 4 |
| | Don't know | DK |



| Q.37 | How many sets of needlesort of tional information? | r keyeort materials d | ses your scho | oi have for students to use to get occ | ф |
|------|--|-------------------------------------|---------------|--|---|
| | (If none, please write in "0.") | | | | |
| | | imber of needlesort keysort sets | | Uf "0," skip to Question 39, Page 16) | |
| Q.38 | Please estimate how many ho | urs per day, ON THE | AVERAGE, a | needlesort or keysort is: | |
| | | | | Hours per day | |
| | å, | AVAILABLE FOR U | | s | |
| | ь | ACTUALLY USED | • | | |



Section VI - School-Arranged Experiences

Q.39 The next set of questions is about school-arranged experiences, simulations, or personal contacts which provide students with occupational information. Please indicate whether your school offers any of these experiences. (That is, the types of experiences in categories K through M of Question 11.)

| | Circle one | |
|-----|------------|------------------------------|
| Yes | 1 | >- Proceed to Question 40 |
| No | 2 ——— | Skip to Question 48, Page 19 |

Q.40 Which of the following experiences offered by your school in grades 10-12 are required of all students, available to all students, or available only to students in certain curricula?

(If your school does not offer an experience, please circle NA.)

| | | Circle one on each line | | | |
|----|---|--------------------------|---------------------------------|---|----------------|
| | | Required of all students | Available to all students | Available only to students in certain curricula | Not offered |
| | School courses in career planning | ı | 2 | 3 | NA |
| b | Occupational information units in subject matter courses | l | 2 | 3 | NA |
| С | Exploratory work-experience programs (co-op work-study, EBCE, etc.) | 1 | 2 | 3 | NA |
| đ | Career days | 1 | 2 | 3 | NA |
| e | Job site tours or visits (field trips) | 1 | 2 | 3 | NA |
| f. | Job shadowing (in-depth observation of a worker) | l | 2 | 3 | NA |
| 8 | Simulations (e.g., Singer, SRA Job Experience Kits) | 1 | 2 | 3 | NA |

Q.41 At what grade levels is each of the following experiences offered to students?

| | | Circle all that apply | | | |
|----|---|-----------------------|-------------|-------------|----------------|
| | | Grade 10 | Grade 11 | Grade 12 | Not offered |
| a. | School courses in career planning | 1 | 2 | 3 | NA |
| b | Occupational information units in subject matter courses | 1 | 2 | 3 | NA |
| ¢ | Exploratory work-experience programs (co-op work-study, EBCE, etc.) | 1 | 2 | 3 | NA |



Q.42 On the average, about how many 10th-12th grade students PER YEAR take part in each of the following experiences offered by your school?

| | | Record on each line | | |
|------------|---|---------------------|------------------------|--|
| | | Number of students | Experience not offered | |
| a . | School courses in career planning | | NA | |
| b | Occupational information units in subject matter courses | | NA | |
| c | Exploratory work-experience programs (co-op work-study, EBCE, etc.) | | NA | |
| đ | Career days | | NA | |
| e | Job site tours or visits (field trips) | | NA | |
| f. | Job shadowing (in-depth observation of a worker | | NA | |
| ı | Simulations (e.g., Singer, SRA Job Experience Kits) | | NA | |

Q.43 During 10th-12th grades, HOW OFTEN do MOST students participate in each of the following experiences arranged by your school?

| | | Circle one on each line | | | | | |
|----|--|-------------------------------|-----------------------------|--|--|----------------|-------|
| | | Most do NOT participate | Most participate once | Most participate two to three times | Most perticipate four or more times | Not offered | Don't |
| ā. | Career days | 0 | 1 | 2 | 3 | NA | DK |
| b | Job site tours or visits (field trips) | 0 | i | 2 | 3 | NA | DK |
| c | Conferences with community representatives (employed alumni, workers, employers) | 0 | 1 | 2 | 3 | NA | DK |
| d | Simulations (e.g., Singer or SRA Job Experience Kits) | 0 | 1 | 2 | 3 | NA | DK |

Q.44 During the 10th-12th grades, HOW MUCH TIME in all does a PARTICIPATING student generally spend in each of the following experiences arranged by your school?

| | | Circle one on each line | | | | | |
|----|--|---------------------------|--|-----------------|------------------------------|----------------|---------------|
| | | One day to one week | More than one week but less than one semester | One semester | More than one semester | Not offered | Don't know |
| 2 | School courses in career planning . | ļ | 2 | 3 | 4 | NA | DK |
| b | Occupational information units in subject matter courses. | ì | 2 | 3 | 4 | NA | DK |
| ¢ | Exploratory work experience (co-op work-study, EBCE, etc.) | 1 | 2 | 3 | 4 | NA | DK |
| đ. | Volunteer service arranged by school | l | 2 | 3 | 4 | NA | DK |
| e. | Job shadowing (in-depth observation of a worker) | 1 | 2 | 3 | 4 | NA | DK |



Q.45 How many occupations are covered by each of the following experiences in your 10th-12th grades?

| | | Circle one on each line | | | | | |
|----|---|-------------------------|----------------------|-------------------------|--------------------------|----------------|---------------|
| | | 1 to 10 occupations | 11 to 30 occupations | 31 to 50 occupations | More than 50 occupations | Not offered | Don't know |
| 1 | School courses in career planning | ı | 2 | 3 | 4 | NA | DK |
| þ | Occupational information units in subject matter courses | 1 | 2 | 3 | 4 | NA | DK |
| c | Exploratory work-experience programs (co-op work-study, EBCE, etc.) | 1 | 2 | 3 | 4 | NA | DK |
| d. | Job shadowing (in-depth observation of a worker) | 1 | 2 | 3 | 4 | NA | DK |
| e. | Simulations (e.g., Singer, SRA Job Experience Kits) | 1 | 2 | 3 | 4 | NA | DK |

Q.46 How are students made aware of the experiences, simulations and personal contacts arranged by your school?

| | Circle all that apply |
|--|-----------------------|
| Experiences are listed in course offerings | 1 |
| Presentations are given to student body | 2 |
| Presentations are given to parents | 3 |
| Advertisements are presented on radio and TV | 4 |
| Teachers must recommend students | 5 |
| Conferences with counselors | 6 |
| Other (specify) | 7 |
| No particular method is used | NA |

Q.47 What type of follow-up, if any, is regularly made of students who participate in school-arranged experiences, simulations, and personal contacts?

| | Circle all that apply |
|--------------------------------------|-----------------------|
| Conference with counselor or teacher | 1 |
| Group discussion | 2 |
| Test or questionnaire | 3 |
| Student report — oral | 4 |
| Student report — written | 5 |
| Other (specify) | 6 |
| No particular method is used | NA. |



Section VII - Miscellaneous Questions

Q.48 Which of the following sources of information about LOCAL job apportunities does your school have?

| | Circle all that apply |
|--|-----------------------|
| Job bank listings or reports from state employment service or department of labor, showing jobs available for local area (city or state) | . 1 |
| Tabulations of local newspaper employment advertisements by occupation or type of je | o b 2 |
| Notices of jobs available locally | 3 |
| List of contacts at local public or private employment agencies and training programs who can help students get jobs or job training | 4 |
| List of representatives of local unions . | 5 |
| Information from local government (city, county, state) civil service and employment service offices | 6 |
| I iformation about local jobs from follow-up of former students who work in area | 7 |
| Other (specify): | |
| Na. | |
| rione | . 7 |

Q.49 Which of the following occupational information resources designed for the handicapped does your school have?

| | Circle all that apply |
|---|-----------------------|
| Braile for the blind | 1 |
| Tape recording for the blind | 2 |
| Sound amplification for the hearing impaired | 3 |
| Simplified reading material for the mentally retarded | 4 |
| Other (specify) | 5 |
| | |
| None | NA |

Q.50 in which of the following languages other than English does your school PROVIDE OCCUPATIONAL IN-**FORMATION?**

| | Circle all that apply |
|------------------|-----------------------|
| Spanish | 1 |
| French | 2 |
| Other (specify): | 3 |
| | |
| None | NA |



| Q. 5 1 | Dose a substantial proportion of the occupational information resources available to your students come |
|---------------|---|
| | from an EXTERNAL RESOURCE CENTER (district, regional, or state)? This may be a career resource |
| | center, a media lending library, a mobile unit, or other provider of occupational information. |

| Yes | 1 | | Proceed to Question 52 |
|-----|---|-------------|---|
| No | 2 | | Please turn to the back cover of this booklet |

Q.52 Under what auspices is the center maintained?

(If more than one external center provides a substantial proportion of the occupational resources available to your students, please answer about the one you use most often.)

| | Circle all that apply |
|--------------------------------------|-----------------------|
| State educational information center | 1 |
| State employment service | 2 |
| Other state agency | 3 |
| County | 4 |
| School district | 5 |
| Local college | 6 |
| Other (specify) | , |

Q.53 What types of resources does the center make evallable for use by your students?

| | Circle ell that apply |
|---|-----------------------|
| Publications | 1 |
| Films, filmstrips, other audio-visual materials | 2 |
| Microfiche | 3 |
| Computer terminals | 4 |
| Keysorts or needlesorts | 5 |
| Speakers or career days | 6 |
| Center-arranged exploratory work experiences, simulations, or personal contacts | 7 |
| Other (specify) | 8 |

In Conclusion

| Does your acheol have any occupational information programs or resources for grades ten through twelve not severed in this survey which you lesi have a significant influence on the educational or career plans of students? If so, please list and describe these below. |
|--|
| |
| Are there any additional comments you would like to make concerning any of the topics addressed by this |
| survey? For example, what improvements would you like to see in occupational information? |
| |
| · |
| We would be happy to send you a summary of the survey results. If you would like to receive a copy, please check the box below and fill in your return address on the business-reply envelope to ensure that we have a correct address. |
| Yes, send me a summary of the survey results Thank you for completing this questionnaire. Your participation in the survey has contributed directly to the successful outcome of this timely study. Please insert the completed questionnaire booklet into the preaddressed envelope and mail to: |
| Career Information Survey Mathematica Policy Research, Inc. Post Office Box 2393 Princeton, New Jersey 08540 |



APPENDIX B

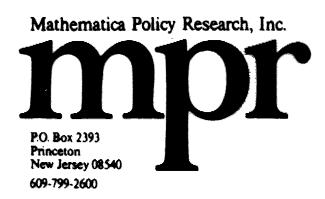
LEARNING ABOUT OCCUPATIONS

A NATIONAL STUDY OF HIGH SCHOOL STUDENTS

Agency affiliation:
National institute of Education
National Occupational Information
Coordinating Committee
Educational Testing Service
The College Board
Mathematica Policy Research

This report is authorized by legislation (20 USC 1221e). While you are not required to respond, your cooperation is needed to make the results of the survey comprehensive, accurate and timely.





Dear Student:

Good information about different types of jobs can be very important to students trying to decide on a career. The federal government is studying ways to help high school students get better information. We are asking you to help us by filling out this questionnaire. It contains questions about the materials and activities high school students use to get information about different types of jobs. There are also a few questions about you, so that we can find out if different students use different materials. (Most students can finish the questionnaire in less than half an hour.)

Only a few students at your school are being asked to take part in this study. You were selected by a very careful procedure which gave every high school student in the country the same chance of being chosen. With this procedure, the answers of a small number of students can stand for the answers of all students. However, if the procedure is to give accurate information, it is very important that every student chosen take part — including those who know very little about different types of jobs.

Your participation is entirely voluntary. Your answers will be completely confidential. Neither you nor your school will ever be named. However, if you object to any question, or feel your parents would object, you may omit that question.

If you have any questions, you may ask:

who is helping with the study at your school. When you have finished, please SEAL the questionnaire in the envelope in which it came, to ensure that your answers are confidential. Return the envelope to the person at your school named above.

Thank you for your cooperation.

Sincerely,

Barbara R. Phillips Survey Director



To ensure that your answers remain confidential, please do NOT sign your name to this questionnaire.



Part

A About You

The answers to some questions have arrows to show you which question you should go to next. If there are no arrows, go on to the next question.

| 2.1 | What grade are you in no | ow? | (Circle the number of your answer.) |
|-----|--------------------------------------|-----------------|--|
| | 1 | l | 10th Grade |
| | 2 | 2 | 11th Grade |
| | 3 | 3 | 12th Grade |
| | • | i | Other (Please describe) |
| | 5 | 5 | Not sure |
| 2.2 | When did you start to go | o to | this school? (Circle one number.) |
| | ! | 1 | This school year |
| | ; | 2 | Last school year or before |
| 2.3 | Which ONE of the follow | wing | best describes your present high school program? (Circle one number.) |
| | ! | l | General |
| | | | |
| | * | 2 | Academic/college preparatory |
| | | 2 3 | Academic/college preparatory Vocational-technical |
| | ; | _ | • , |
| 2.4 | • | 3 | Vocational-technical |
| 2.4 | Compare your reading at one number.) | 3 | Vocational-technical Other (Please describe) |
|).4 | Compare your reading at one number.) | 3 4 | Vocational-technical Other (Please describe) y to your classmates'. In which of these groups would you put yourself? (Ci |
| 2.4 | Compare your reading at one number.) | 3 4 >!!!! | Vocational-technical Other (Please describe) y to your classmates'. In which of these groups would you put yourself? (Cl |
| 2.4 | Compare your reading at one number.) | 3 4 billt | Vocational-technical Other (Please describe) y to your classmates'. In which of these groups would you put yourself? (Cl Top fifth Upper middle fifth |



| Q.5 | What do you plan to do t | nhe | n you leave high scho | ol? (Circle the nu | mbers of all the answers that apply to |
|-----|--------------------------|------|-------------------------|----------------------|--|
| | 1 | | Go to a vocational, te | chnical, business or | trade school |
| | 2 | ! | Enter an apprenticeshi | p or on-the-job trai | ning program |
| | 3 | ŀ | Go to a two-year colle | ge | |
| | • | i | Go to a four-year colle | tge . | |
| | 5 | 1 | Get a job right away | | |
| | 6 | • | Enter the armed forces | i (Army, Navy, Air | Force, Marines) |
| | 7 | ! | Be a homemaker for n | ny own family | |
| | • | 1 | I have not decided wh | at to do when I leav | ve school |
| | 9 |) | Other (Please describe) | | |
| | | | | | |
| 0.4 | Are you: | | | | |
| | - • - | 1 | Male | | |
| | | 2 | Female | | |
| | | - | | | |
| Q.7 | Which ONE of the follow | ving | describes you best? | | |
| | 1 | 1 | American Indian or A | laskan native | |
| | : | 2 | Asian or Pacific Island | der | |
| | : | 3 | Black, not of Hispania | (Spanish) origin | |
| | • | • | Hispanic (Spanish) | | |
| | : | 5 | White, not of Hispani | c (Spanish) origin | |
| | | | | | |
| Q.8 | Do you have a physical | hani | dicap that limits the | kind of work you | can do? (Circle one number.) |
| | 1 | l | Yes Q.9 | | dicap do you have? (Circle the numbers |
| | ; | 2 | No | | rs that apply to you.) |
| | | | | 1 | Visual (difficulty seeing) |
| | | | | 2 | Hearing |
| | | | | 3 | Speech |
| | | | | 4 | Orthopedic (for example, "crippled") |
| | | | | 5 | Other (Please describe) |



PART

B

Using Books, Magazines, Pamphlets and Reports

Now, we rant to ask you about ways you may have learned about occupations. By OCCUPATION we mean a type of job. Three examples of occupations are carpenter, secretary and lawyer

The questions in this section ask about using books, magazines, pamphlets and reports to learn about occupations

Q.10 Does your school have any of the following types of printed materials that you can use to get information about occupations?

| Does your school have | • | Circle either "Yes", "No" or "Not sure" for each of the 4 parts of the question | | | | |
|--|-----|--|-------------|--|--|--|
| Reference books that describe many occupations, such as the Occupational Outlook Handbook (OOH) | Yes | No | Not sure | | | |
| Magazines about occupations, such as <u>Career World</u> | Yes | No | Not sure | | | |
| Pamphiets, briefs or kits about occupations, such as SRA Briefs? (Usually each pamphlet describes a single occupation) | Yes | No | Noi sure | | | |
| Reports about their jobs by people who used to be students at your school | Yes | No | Noi sure | | | |

| Ω | 11 | Did you circ | le "Yes" | ' AT | LEAST | ONCE | in | Question | 10 | ? |
|---|----|--------------|----------|------|-------|------|----|----------|----|---|
|---|----|--------------|----------|------|-------|------|----|----------|----|---|

| Yes | | Go 10 | Question | 12, | Page | 4 |
|-----|-------------|-------|-----------|------|------|---|
| No | | Go 10 | Part C. F | Page | б | |



| How did you find out that your school has reference books, magazines, pamphiets or reports that you can |
|---|
| use to get information about occupations? |

(Circle the numbers of all the answers that apply to you.)

- From a guidance counselor or guidance staff member
- 2 From a career education specialist
- 3 From a teacher during class
- 4 From a teacher outside class
- 5 From a school librarian
- 6 From a poster or bulletin board
- 7 From the school newspaper
- 8 From a friend at school
- 9 From a group visit or orientation
- 10 Other (Please describe) ______
- 11 I don't remember how I found out

Q.13 AT THIS SCHOOL, since you started tenth grade, how often have you read the reference books, magazines, pamphiets or reports about occupations?

If your school doesn't have a type of printed material, circle "Never."

| How often have you read: | | Circle one enswer for each of the 4 parts of the question | | | | | |
|---|-------|--|----------------|---------------|--|--|--|
| Reference books that describe many oc- cupations | Never | Once | A few times | Many times | | | |
| Magazines about occupations | Never | Once | A few times | Many times | | | |
| Pamphlets, briefs or kits about occupations | Never | Once | A few times | Many times | | | |
| Reports about their jobs by people who used to be students at your school | Never | Once | A few times | Many times | | | |



| All 4 times — Go to Part C, Page 6 i.15 What kind of information were you trying to get when you used the reference books, magazines, pamphlets or reports about occupations AT THIS SCHOOL? (Circle all that apply to you.) 1 A description of the things people usually do in an occupation 2 The abilities, education or training needed to enter an occupation 3 Outlook for job openings in an occupation in the 1980s 4 Wage or salary in an occupation 5 Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige 6 A list of occupations you might like 7 Other kinds of information about occupations (Please describe) — 8 I wasn't looking for any particular kind of information about occupations — Go to Part C, Page 6 | | 3 tumes or less — Go to Question 15 |
|---|------------|--|
| or reports about occupations AT THIS SCHOOL? (Circle all that apply to you.) 1 A description of the things people usually do in an occupation 2 The abilities, education or training needed to enter an occupation 3 Outlook for job openings in an occupation in the 1980s 4 Wage or salary in an occupation 5 Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige 6 A list of occupations you might like 7 Other kinds of information about occupations (Please describe) | | All 4 times — Go to Part C, Page 6 |
| 2 The abilities, education or training needed to enter an occupation 3 Outlook for job openings in an occupation in the 1980s 4 Wage or salary in an occupation 5 Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige 6 A list of occupations you might like 7 Other kinds of information about occupations (Please describe) | ı.15 | What kind of information were you trying to get when you used the reference books, magazines, pamphlets or reports about occupations AT THIS SCHOOL? (Circle all that apply to you.) |
| 3 Outlook for job openings in an occupation in the 1980s 4 Wage or salary in an occupation 5 Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige 6 A list of occupations you might like 7 Other kinds of information about occupations (Please describe) | / | 1 A description of the things people usually do in an occupation |
| 4 Wage or salary in an occupation 5 Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige 6 A list of occupations you might like 7 Other kinds of information about occupations (Please describe) | 1 | 2 The abilities, education or training needed to enter an occupation |
| 5 Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige 6 A list of occupations you might like 7 Other kinds of information about occupations (Please describe) | 1 | 3 Outlook for job openings in an occupation in the 1980s |
| 6 A list of occupations you might like 7 Other kinds of information about occupations (Please describe) | ۲\ | 4 Wage or salary in an occupation |
| 7 Other kinds of information about occupations (Please describe) | | 5 Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige |
| (Please describe) | | 6 A list of occupations you might like |
| | | 7 Other kinds of information about occupations |
| 8 I wasn't looking for any particular kind of information about occupations | | (Please describe) |
| | | 8 I wasn't looking for any particular kind of information about occupations |
| | ↓ • • • | This was find the information you wanted? (Circle one number.) |
|) V of this way that the information you wanted? (Circle one number) | 4,11 | |
| Q.16 Did you find the information you wanted? (Circle one number.) | | : AHUH I |

| | All of it | | | | | |
|----|------------|--------------|--------|---------|-------------|----|
| ! | Most of it | →Q.17 | Was it | hard fo | r you to un | de |
| l | Some of it | | | 1 | Yes | |
| l. | None of it | | | 2 | Sometim | es |
| | | | | , | No | |



Information from a Computer

Some schools provide information about occupations (different types of jobs) from a COMPUTER. Sometimes students use a computer terminal (with or without the help of someone at the school) to get the information. Sometimes students fill out a form and get back a report from the computer. There are two basic types of terminals. They look something like this:





Q.18 At your school, can you get information about occupations from a COMPUTER? (Circle one number.)

Yes → Go to Part D. Page 8

Q.19 How did you find out that students at your school can get information about occupations from a computer? (Circle the numbers of all the answers that apply to you.)

- From a guidance counselor or guidance staff member
- 2 From a career education specialist
- 3 From a teacher during class
- From a teacher outside class
- From a school librarian 5
- From a poster or bulletin board 6
- 7 From the school newspaper
- 8 From a friend at school
- 9 From a group visit or orientation
- From a notice or pamphlet handed out at school 10
- Other (Please describe) __ 11
- I don't remember how I found out 12



| | 1 | Never | | | | | | |
|-----|--|---|--|--|--|--|--|--|
| | 2 | Once | | | | | | |
| | 3 | A few times | | | | | | |
| | 4 | Many times | | | | | | |
| | | | | | | | | |
|).2 | 1 What kind of informatio | n about eccupations were you trying to get? (Circle all that apply to you.) | | | | | | |
| | / 1 A description of what po | ople usually do in an occupation | | | | | | |
| | 2 The abilities, education of | r training needed to enter an occupation | | | | | | |
| | 3 Outlook for job opening | s in an occupation in the 1980s | | | | | | |
|) | 4 Wage or salary in an occupation | | | | | | | |
| - (| , , ,,_, , ,,, ,,,,,,,,,,,,,,,,,,,,,,,, | 5 Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige | | | | | | |
| ۲ | (| et in an occupation, for example, chances to help others, leadership, prestige | | | | | | |
| | (| | | | | | | |
| | 5 Satisfactions you might (| might like | | | | | | |
| | 5 Satisfactions you might (6 A list of occupations you | n might like on about occupations | | | | | | |
| | 5 Satisfactions you might a 6 A list of occupations you 7 Other kinds of informati (Please describe) | n might like on about occupations | | | | | | |

| 1 | All of it | |
|---|------------|--|
| 2 | Most of it | ightarrow Q.23 Was it hard for you to understand the information |
| 3 | Some of it | l Yes |
| 4 | None of it | 2 Sometimes |
| | | 1 No |

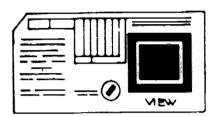


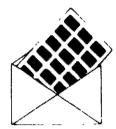
D

Using Microfiche

Some schools have information about occupations (different types of jobs) on MICROFICHE. The information is printed in very small letters on little sheets of film. Sometimes the sheets of film are mounted on a card. Sometimes they are stored in envelopes. To read microfiche, you use a special machine, called a viewer or reader-printer.

Microfiche looks like this:





A viewer or reader-printer looks something like this:



Q.24 Does your school have MICROFICHE that you can use to get information about occupations? (Circle one number.)

1 Yes

2 No
3 Not surc

Go to Part E, Page 10

Q.25 How did you find out that your school has information about occupations on microfiche? (Circle the numbers of all the answers that apply to you.)

- 1 From a guidance counselor or gu 🕝 z staff member
- 2 From a career education specialist
- 3 From a teacher during class
- 4 From a teacher outside class
- 5 From a school librarian
- 6 From a poster or bulletin board
- 7 From the school newspaper
- 8 From a friend at school
- 9 From a group visit or orientation
- 10 Other (Please describe)
- ii I don't remember how I found out



| Q.26 | Since you started tenth tion about occupations | grad | e, how often have you used the microfiche AT THIS SCHOOL to get informe- |
|------|--|------|--|
| | | 1 | Never |
| | | 2 | Once |
| | | 3 | A few times |
| | | 4 | Many times |

Q.27 What kind of information were you trying to get? (Circle all that apply to you.)

| / | l | A description of what people usually do in an occupation |
|---|---|---|
| | 2 | The abilities, education or training needed to enter an occupation |
| \ | 3 | Outlook for job openings in an occupation in the 1980s |
| / | 4 | Wage or salary in an occupation |
| | 5 | Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige |
| , | 5 | A list of occupations you might like |
| (| 7 | Other kinds of information about occupations |
| 1 | | (Please describe) |

Q.28 Did you find the information you wanted?

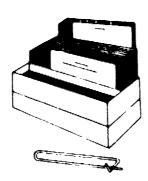
| ı | All of it | | | |
|---|------------|---------------|-----------------|------------------------------------|
| 2 | Most of it | → Q.29 | Was it hard for | you to understand the information? |
| 3 | Some of it |) | 1 | Yes |
| 4 | None of it | | 2 | Sometimes |
| | | | 1 | Ni. |



E

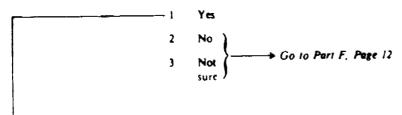
Using Sorting Cards

Some schools have sorting cards that students can use to select occupations (different types of jobs) they might like. Decks of these cards are often called KEYSORTS or NEEDLESORTS. You put a needle or pin through holes in the cards to select the cards for some of the occupations in the deck. Here are some different types of sorting cards:





Q.30 Does your school have SORTING CARDS you can use to select occupations that you might like? (Circle one number.)



Q.31 How did you find out that your school has sorting cards to select occupations? (Circle the numbers of all the answers that apply to you.)

- From a guidance counselor or guidance staff member
- 2 From a career education specialist
- 3 From a teacher during class
- 4 From a teacher outside class
- 5 From a school librarian
- 6 From a poster or bulletin board
- 7 From the school newspaper
- 8 From a friend at school
- From a group visit or orientation
- 0 Other (Please describe)
- 11 I don't remember how I found out



| 0.11 | • | ince you started tent | in curau | ia, how often | hawa was | ad a | ortina e | eart | a AT TI | 418 SCHO(| Ol to select | occupa. |
|----------|-----|---|----------|----------------|------------|----------|----------|--------|---------|-----------|--------------|--------------------|
| | | one you might like? | | | | | | | | | | ~~~ ~ ~ |
| | | | 1 | Never | → Go to | Pert F, | Page 12 | ? | | | | |
| | | | 2 | Once | | | | | | | | |
| | | | 3 | A few times | | | | | | | | |
| | | | 4 | Many times | | | | | | | | |
| | | | | | | | | | | | | |
| Q.X | W | het kind of informet | ion w | ere you trying | to get? | (Circle | ali that | t app | My to ; | ou.) | | |
| i | / ı | A description of the | things | people usually | do in an o | occupati | Oπ | | | | | |
| | 2 | The abilities, education or training needed to enter an occupation | | | | | | | | | | |
| 1 | 3 | Outlook for job openings in an occupation in the 1980s | | | | | | | | | | |
| _ (| 4 | 4 Wage or salary in an occupation | | | | | | | | | | |
| |) 5 | Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige | | | | | | | | | | |
| | 6 | A list of occupations you might like | | | | | | | | | | |
| | 7 | Other kinds of infort | mation | about occupat | ions | | | | | | | |
| | 1 | (Please describe) | | | | | | _ | | 10-2-2- | | |
| | 8 | I wasn't looking for a | ny par | ncular kind of | informatic | on about | occupa | itions | | | Go to Part F | . Page 12 |
| 1 | | - | | | | | | | | | | |
| | | | | | | | | | | | | |
| ↓ | | | | | | | | | | | | |
| Q.3 | D | id you find the infor | matio | n you wented | 7 | | | | | | | |
| | | | 1 | All of it | | | | | | | | |
| | | | 2 | Most of it | → Q.35 | Was It | hard | for y | rou to | understat | nd the info | rmation? |
| | | | 3 | Some of it | | | 1 | , | Yes | | | |

2

3

Sometimes

No

None of it

PART

F

Activities at School to Help You Learn about Occupations

Q.36 Since you started tenth grade, have you taken part AT THIS SCHOOL in any of the activities listed below?

If you have not taken part, please circle NO, even if you are not sure whether your school has an activity.

| Since tenth grade, have you: | Circle one answe 9 parts of ti | er for each of the he question |
|---|-----------------------------------|-----------------------------------|
| Seen a film or video-tape about occupations | Ys | No |
| Taken part in a "simulation" (playing the part of someone in an occupation) | Yes | No |
| Had a special course or a unit in a regular course to help you plan your career or give you information about occupations | Yes | No |
| Gone to a "career day" or "fair" | Yes | No |
| Taken part in a work-study or internship program or in volunteer work ARRANGED BY YOUR SCHOOL | Yes | No |
| Had a tour of a plant, business or other place where people work | Yes | No |
| Taken part in ''job shadowing'' (observing a person at work) | Yes | No |
| Met with people who used to be students at your school to talk about their jobs | Yes | No |
| Met with other workers or employers | Yes | No |



| Q.37 | How did you find out that this school has one or more of the activities listed in Question 36? |
|------|---|
| | (Circle the numbers of all the answers that apply to you. If you don't think this school has any of these activities, circle 12.) |

| | Dather' circle : 5" | |
|------|-------------------------------|--|
| | 1 | From a guidance counselor or guidance staff member |
| | 2 | From a career education specialist |
| | 3 | From a teacher during class |
| | 4 | From a teacher outside class |
| | 5 | From a school librarian |
| | 6 | From a poster or bulletin board |
| | 7 | From the school newspaper |
| | 8 | From a friend at school |
| | 9 | From a group visit or orientation |
| | 10 | Other (Please describe) |
| | 11 | I don't remember how I found out |
| | 12 | I don't think this school has any of these activities |
| Q.34 | | lid you hope to get by taking part in the activities listed in Question 36? |
| | (Circle all that apply to you | If you have not taken part in any of these activities at this school, circle 9.) |
| | 1 | A description of what people usually do in an occupation |
| | 2 | The abilities, education or training needed to enter an occupation |
| | 3 | Outlook for job openings in an occupation in the 1980s |
| | 4 | Wage or salary in an occupation |
| | | |

- Satisfactions you might get in an occupation, for example, chances to help others, leadership, prestige
- 6 A list of occupations you might like
- 7 Other kinds of information about occupations
 (Please describe)
- 8 I wasn't looking for any particular kind of information about occupations
- 9 Since I started tenth grade, I haven't taken part in any of these activities at this school



PART

Getting Information about Occupations

Q.36 There are many reasons why students look for information about occupations. We have listed 9 below. Since you started tenth grade, how often have you looked for information about occupations for each of these reasons?

Circle one answer for each of

Count only the things you did at this school.

| How often have you tooked for information | | the 9 parts of | the question | |
|---|-------|----------------|----------------|---------------|
| about occupations because of: | | , - | A few | Many |
| A class assignment | Never | Once | times | times |
| | Never | Once | A few | Many |
| A talk with a school guidance counselor | Nevel | Olice | | |
| A talk or lecture by someone at school | Never | Once | A few times | Many times |
| A talk of recture by someone at serious | | | | |
| A film at school | Never | Once | A few times | Many times |
| | | | | |
| A bulletin board display at school | Never | Once | A few times | Many times |
| | | | A few | Many |
| A talk with your parents or other relatives | Never | Once | times | limes |
| | | | A few | Many |
| Experience on a job | Never | Once | times | times |
| | | | A few | Many |
| A TV show or movie outside of school | Never | Once | times | times |
| | | | A few | Many |
| A talk with a friend | Never | Once | times | times |



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Q.40 Since you started tenth grade, how often have you talked with a guidance counselor or a career education specialist AT THIS SCHOOL about each of the topics listed below?

| How often have you talked with a counselor about: | Circle one answer for each of the 7 perts of the question | | | | | | | | | |
|---|---|------|----------------|---------------|--|--|--|--|--|--|
| Which high school courses you should take | Never | Once | A few times | Many times | | | | | | |
| | | | A few | Many | | | | | | |
| Which occupation you should choose | Never | Once | umes | times | | | | | | |
| | | | A few | Many | | | | | | |
| How you can prepare for an occupation | Never | Once | times | times | | | | | | |
| | | | A few | Малу | | | | | | |
| How or where you can get a job | Never | Once | times | times | | | | | | |
| Problems you've had with attendance or | | | A few | Many | | | | | | |
| discipline | Never | Once | times | times | | | | | | |
| | | | A few | Many | | | | | | |
| Personal problems you've had | Never | Once | times | times | | | | | | |

Q.41 Since you started tenth grade, how often have you talked about OCCUPATIONS with each of the types of people listed below?

| How often have you talked about occupations with: | | Circle one ans the 10 perts o | wer for each of I the question | |
|---|-------|----------------------------------|-----------------------------------|-------|
| | | | A few | Many |
| Your friends | Never | Once | times | times |
| | | | A few | Many |
| Your parents or other relatives | Never | Once | times | times |
| Guidance counselors or career | | | A few | Many |
| education specialists | Never | Once | times | times |
| | | | A few | Many |
| Teachers | Never | Once | times | times |
| People working in an occupation | | | A few | Many |
| of interest to you | Never | Once | times | times |
| People who used to be students | | | A few | Many |
| at your school | Never | Once | times | times |
| | | | A few | Many |
| State employment service counselors | Never | Once | times | times |
| | | | A few | Many |
| • Employers | Never | Once | times | times |
| | | | A few | Many |
| College admissions officers | Never | Once | times | times |
| Armed forces recruiters (for Army, | | | A few | Many |
| Navy, Air Force, Marines) | Never | Once | times | times |



Q.42 Since you started tenth grade, how often have you gone to each of the places listed below TO GET INFOR-MATION ABOUT OCCUPATIONS?

| low eften have you gone to: | Circle one enswer for each of the 7 parts of the question | | | | | | | | |
|--------------------------------------|---|--------|-------|-------|--|--|--|--|--|
| | | | A few | Many | | | | | |
| A public library | Never | Once | times | times | | | | | |
| | | | A few | Many | | | | | |
| A state employment service office | Never | Once | times | times | | | | | |
| | | | A few | Many | | | | | |
| A district or regional career center | Never | Once | times | times | | | | | |
| | | | A few | Many | | | | | |
| A local college | Never | Once | times | times | | | | | |
| | | | A few | Many | | | | | |
| A private employment agency | Never | . Once | umes | tumes | | | | | |
| An Armed forces recruiting office | | | A few | Many | | | | | |
| (for Army, Navy, Air Force, Marines) | Never | Once | times | times | | | | | |
| | | | A few | Many | | | | | |
| An employer | Never | Once | times | times | | | | | |

Q.43 Do you believe that you could get all the information you need about occupations from the resources at your school? (Circle one number.)

- Yes
- No
- Not sure



PART

Choosing an Occupation

Now we would like to ask you about choosing an occupation (type of job) for yourself

Q.44 How sure are you about which occupation you want to enter? (Circle one number.)

- I know exactly which occupation I want to enter
- 2 I am trying to decide between two different occupations
- 3 I am thinking about three or more different occupations
- 4 I do not have any occupation in mind at this time

Q.45 How well do you know what you want from an occupation?

- I know exactly what I want from an occupation
- 2 I have a general idea of what I want from an occupation
- 3 I'm not sure what I want from an occupation
- 4 I have no idea what I want from an occupation



Q.46 What occupation are you thinking of entering? (Write its name in below. If you are undecided, write in the name of an occupation you think you might like.)

NAME OF OCCUPATION

Q.47 How much do you know about this occupation?

1 A great deal
2 Some Go to Question 48 Below
3 Very little

4 Nothing —→ Go to Question 60, Page 20

Q.48 Where did you get your information about the occupation you named in Question 48? Below you will find a list of 37 sources of information about occupations. Circle the numbers of ALL the sources you used to get information about this occupation. Please consider BOTH columns.

Sources of Information

People at school

- 1 Teachers
- 2 Counselors
- 3 Principal or Assistant Principal
- 4 Librarian
- 5 Friends
- 6 Someone else at school

People outside of school

- 7 Parents or other relatives
- 8 Friends outside of school
- 9 Someone in the line of work of interest to you
- 10 Employment service representative
- 11 Someone else outside of school

Materials at school

- 12 Books, magazines, pamphleis, reports
- 13 Films, tapes, cassettes
- 14 Microfiche
- 15 Computer
- 16 Other materials at school

Places to get information outside of school

- 17 Public library
- 18 District or regional career center
- 19 State employment office
- 20 Other place outside of school

Activities arranged by school

- 21 Career days or assembly programs
- 22 Career clubs
- 23 Classes in career planning
- 24 Job shadowing (observing a worker)
- 25 Visits to places where people work
- 26 Work-study or internship programs
- 27 Volunteer work arranged by school
- 28 Meeting with people who used to be students at your school
- 29 Meeting with other workers or employers
- 30 Other activities arranged by school

Activities outside of school

- 31 Work
- 32 Watching people at their work
- 33 Watching TV
- 34 Movies
- 35 Clubs (for example, 4H, Future Farmers, Explorer Scouts)
- 36 General reading or reading for fun
- 37 Other activities outside of school



| Q.49 | _ | low m 2.46? | ach do y | ou know about the EDUCATION or TRAINING needed to enter the occupation you named in |
|--------------|-----|----------------|-----------|--|
| | l | A gre | at deal | |
| | 2 | Some | : | Q.50 From what ONE source of those listed in Q.48 did you get most of this information? |
| | 3 | Very | little | SOURCE NUMBER: |
| | 4 | Noth | ing. | SOURCE NUMBER: |
| Ŏ.51 | Н | low m | uch do : | you know about WAGES OR SALARIES in the occupation you named in Q.46? |
| | ١ | A gr | est deal | |
| | 2 | Some | : | Q.52 From what ONE source of those listed in Q.48 did you get most of this information? |
| | 3 | Very | httle | , |
| _ | 4 | Noth | ing | SOURCE NUMBER: |
| | ۲ | low m | | you know about JOB SECURITY (for example, little chance of layoffs) in the occupation you? |
| | 1 | A gr | eat deal |) |
| | 2 | Som | ŧ | Q.54 From what ONE source of those listed in Q.48 did you get most of this information? |
| | 3 | Very | little | , |
| _ | - 4 | Noth | ing | SOURCE NUMBER: |
| Q .55 | + | tow m | uch do | you know about OPPORTUNITIES TO HELP OTHERS in the occupation you named in Q.481 |
| | ı | A gr | eat deal |) |
| | 2 | 2 Som | e | Q.56 From what ONE source of those listed in Q.48 did you |
| | |) Very | | get most of this information? |
| | | Noti | | SOURCE NUMBER: |
| | • | | | you know about the USUAL ACTIVITIES of people working in the occupation you named in |
| | 1 | | eat deal | <i>)</i> |
| | | Som | | Q.58 From what ONE source of those listed in Q.48 did you |
| | | | | get most of this information? |
| | | • | hitle | SOURCE NUMBER: |
| | | | - | > Please turn to Page 21 |
| Q.59 | | named | . HOW I | old us where you got your information about what people usually do in the occupation you DID IT HAPPEN that you got information from this source instead of some other source? (Cir irs of all the answers that apply to you.) |
| | 1 | l lı w | as the or | lly source I knew about |
| | 7 | 2 lwa | s told to | use this source. |
| | | 3 wa | inted to | find out what it was REALLY like to be in that occupation |
| | 4 | 4 I wa | nted to | get information from someone who knew me |
| | : | 5 lt w | as easy t | o get information from this source |
| | (| 6 I the | ought the | at the information from this source would be easy to understand |
| | | | | at the information from this source would be up-to-date |
| | | | | get a general idea of that occupation |
| | | | | ly looking for information at the time |
| | | | | e describe) |
| | | - 5 | , | |



Answer Question 60 ONLY if you said you know nothing (in Q.47) about the occupation you named in Q.46.

Q.60 If you wanted to get information about the occupation you named in Q.46, to which THREE sources of the 37 listed below would you be MOST likely to go?

Circle only THREE numbers; please consider BOTH columns.

Sources of Information

People at school

- 1 Teachers
- 2 Counselors
- 3 Principal or Assistant Principal
- 4 Librarian
- 5 Friends
- 6 Someone else at school

People outside of school

- 7 Parents or other relatives
- 8 Friends outside of school
- 9 Someone in the line of work of interest to you
- 10 Employment service representative
- 11 Someone else outside of school

Materials at school

- 12 Books, magazines, pamphlets, reports
- 13 Films, tapes, cassettes
- 14 Microfiche
- 15 Computer
- 16 Other materials at school

Places to get information outside of school

- 17 Public library
- 18 District or regional career center
- 19 State employment office
- 20 Other place outside of school

Activities arranged by school

- 21 Career days or assembly programs
- 22 Career clubs
- 23 Classes in career planning
- 24 Job shadowing (observing a worker)
- 25 Visits to places where people work
- 26 Work-study or internship programs
- 27 Volunteer work arranged by school
- 28 Meeting with people who used to be students at your school
- 29 Meeting with other workers or employers
- 30 Other activities arranged by school

Activities outside of school

- 31 Work
- 32 Watching people at their work
- 33 Watching TV
- 34 Movies
- 35 Clubs (for example, 4H, Future Farmers, Explorer Scouts)
- 36 General reading or reading for fun
- 37 Other activities outside of school



Thank you for answering this questionnaire.

When you have finished answering all the questions that apply to you, please seal the questionnaire in the envelope it came in, and return it to the person in charge of the survey at your school.

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Appendix C

Relationship of School Instrument Items to RFP Questions*

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| N1 | enrollment by grade level | | | x | | | х | | | | | | | | |
| A2 | enrollment by curricula | | | x | | | x | | | | | | | | |
| A3 | racial composition of student body | | | x | | | х | | | | | | | | |
| M | urban/suburban/ rural students | | | x | | | x | | | | | | | | |
| A5 | education/ employment 1978 graduates | | | x | | | x | | | | | | | | |
| λ 6 | percentage of dropouts | | | x | | | x | | | | | | | | |
| λ7 | full-time equi- valent counselors | x | | x | | | x | | | | | nillips, | | | |
| Х8 | head of career guidance | x | | X | | | x | | Ī | | n, New J | ndary Sch Jersey: M 1980. | | | |



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| D) | position of respondent | | | x | x | | x | | | | | | | | |
| B 2 | professional time | | | | | | | | | | | | | | |
| | with students | | | X | X | | X | | | | | | | | |
| B3 | responsibility fo | r | • | | | | | | | | | | | | |
| | management tasks | | | X | X | | X | | | | | | | | |
| 84 | responsibility fo helping students | r X | | x | x | | x | | | | | | | | 1 |
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| B 5 | effectiveness | | | | | | | | | | | | | | • |
| | of method to interest students | . | | | | | x | | | x | | | | | |
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| B6 | membership of review committee | | | x | X | | x | | | | | | | | |
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| 67 | system for cataloguing | | | | | | x | | | | | | | | |
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| B 8 | central index | | | | | | ^ | | | | | | | | |
| B9 | funds for | | | | | | | | | | | | | | |
| | occupational information | x | | x | | | x | | | | | | | | |
| B 10 | guides for | | | | | | | | | | | | | 0.45 | |
| | ordering materials | | | | | | x | | | | | | | 343 | |
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| B11 | inventory of | | | | | | | | | | | | | | |
| | resources | x | | x | | | x | | | | | | | | |
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| R12 | resources for | | | | | | | | | | | | | | |
| | various questions | | | | | | | | | | | | | | |
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| m 13 | resources for | | | | | | | | | | | | | | |
| 917 | | _ | | | | | | | | | | | | | |
| | various purposes | X | | | | | | | | X | | | | | |
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| B14 | most valuable | | | | | | | | | | | | | | |
| | resources | | X | | | | | | | | | | | | |
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| B 15 | resources | | | | | | | | | | | | | | ببا |
| | would add | X | | | | | | | | | | | | | • |
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| B16 | skip | | | | | | | | | | | | | | |
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| B17 | copies of COH | X | X | x | | | Х | | | | | | | | |
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| B18 | review of | | | | | | | | | | | | | | |
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| B19 | skipcomputer | | | | | | | | | • | | | | | x |
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| B20 | ever have | | | | | | | | | | | | | | |
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| B21 | student/staff | | | | | | | | | | | | 0.4~ | | |
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| | use of terminals | | | | | x | X | X | X | | | | | | | |
| B 26 | scheduling | | | | | | | | | | | | | | | ļ |
| | terminals | | | | X | x | X | | | | | | | | | -314- |
| B27 | assistance for | | | | | | | | | | | | | | | |
| | students using computer | | | | x | x | x | | | | | | | | | |
| B28 | skipA-V, micro- | _ | | | | | | | | | | | | | | |
| | fiche, sorting, materials | | | | | | | | | | | | | | X | |
| B29 | review of A-V, | | | | | | | | | | | | | | | |
| | microfiche, | | | | | | | | | • | | | | | | |
| | sorting materials | 3 | X | X | | | X | | | | | | | | | |
| B 30 | occupations covered, A-V, | | | | | | | | | | | | | ~ | | |
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| B 31 | scheduling A-V, microfiche, sorting materials | | | | x | x | x | | | | | | | | |
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| B 33 | availability/ use filmatrip viewers | | | | | x | x | x | x | | | | | | |
| B34 | number micro- fiche readers | x | | x | | | X | | | | | | | | |
| B 35 | availability/ use microfiche readers | | | | | x | x | x | x | | | | | | Ì |
| в36 | date of wage information, microfiche | | x | x | | | | | | | | | | | |
| в37 | number, needlesorts | x | | x | | | x | | | | | | | | |
| B 38 | availability/ use needlesorts | | | | | x | x | x | x | | | | | | |
| в39 | skipschool arranged experiences | | | | | | | | | | | | | | x |
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| B41 | experiences, | | | | | | | | | | | | | | |
| | grade levels offered | x | | x | | x | x | | | | | | | | |
| B4 2 | experiences, student participation | | | | | | | x | x | | | | | | |
| B43 | extent of student participation | | | | | | | x | x | | | | | | -016- |
| B44 | time spent by participating student | x | | x | | x | x | x | x | | | | | | |
| B4 5 | occupations covered, | x | x | x | | | x | | | | | | | | |
| B4 6 | making students aware of experiences | | | | | | x | | | • | | | | | |
| B4 7 | follow-up for experiences | x | | x | | | x | | | | | | | | |

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| 148 | sources of local information | x | | x | | | x | | | | | | | | | |
| 149 | resources for handicapped | x | | x | | | x | | | | | | | | | |
| 3 50 | resources in other languages | x | | x | | | × | | | | | | | | | |
| 851 | use of external resource center | | | x | | | x | | | | | x | X | | X | -317- |
| B 52 | auspices of external resource center | | | | | | x | | | | | x | | | | • |
| B 53 | types of center resources | | | x | | | | | | | | x | | | | |



Relationship of Student Instrument Items to RFP Questions

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| 2 | ymar started at this school | | | | | | | | x | | | | | | | |
| 3 | high school curriculum | | | | | | | | x | | | | | | | |
| 4 | reading ability compared to classmates | | | | | | | | x | | | | | | -318- | |
| 5 | plans after · high school | | | | | | | | x | | | | | | | |
| 6 | student's sex | | | | | | | | x | | | | | | | |
| 7 | student's race | | | | | | | | x | | | | | | | |
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| 8 | physical handica | P | | | | | | | x | | | | | | - |
| 9 | kind of handicap | | | | | | | | x | | | | | | |
| 10 | published materia | als | | | | | | x | x | | | | | | |
| 11 | school have any published materials | | | | | | | | | | | | | | X |
| 12 | finding out about published materials | : | | | | | x | | | x | | | | | |
| 13 | frequency of use, published materials | | | | | | | x | x | | | | | | |
| 14 | ever used published | ed . | | | | | | | • | | | | | | x |
| 15 | kind of infor- mation wanted, published aterials | | | | | | | | | | x | | 357 | | |

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| 17 | information hard to understand, published | | | | | | | | | | | | | | |
| | materials | | X | | | | | | | | | | | | |
| 18 | school have computer | x | | | | | | x | x | | | | | | x |
| 19 | finding out about computer | | | | | | x | | | x | | | | | -320 |
| . 20 | frequency, | | | | | | | x | x | | | | | | X X |
| 21 | kind of infor- mation wanted, computer | | | | | | ٠ | | | | | | | | |
| 22 | was information found, computer | | x | | | | | | | | x | | | | |
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| 24 | school have microfiche | x | | | | | | x | x | | | | | | x |



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| | about micro- fiche | | | | | | x | | | x | | | | | |
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| 26 | frequency microfiche | | | | | | | x | x | | | | | | x |
| 27 ' | kind of | | | | | | | | | | | | | | |
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| | about sorting cards | | | | | | x | | | x | | | | | |
| 32 | frequency, | | | | | | | | | | | | | | |
| | sorting cards | | | | | | | x | x | | | | | | x |
| 33 | kind of infor- | | | | | | | | | | | | | | |
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| | | Mari Ava I I ab Juy | | hanner (T) | | | | | | | Time of | | | Continy | |
| | | Man () all () all () all () | | by | Person- | | Types of | t carpman, y | Françoisey | **** 1 *** 1 ***/ | Information | - | _ | As I requested | m-pale est |
| ** | grant for | toformation Contained | Smally of Induction | Types of Schools | of Bieff | Arr anijama i e La Ima | Actoris by | By Type of Security | By Type of Bludyel | tuituse of the | Security / Christensi | tead to your School | Frequency of the | Pro Britania Manageros | for Milp Fatining |
| | Babes lpt from | | | | | | | | | | | | | - | |
| 43 | all information | 1 | | | | | | | | | | | | | |
| | needed is | • | | | | | | | | | | | | | |
| | available at | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | school | X | X | | | | | | | | | | | | |
| 44 | sure of | | | | | | | | | | | | | | |
| | occupation | | | | | | | | X | X | | | | | |
| | occupacion | | | | | | | | | | | | | | |
| 45 | know what want | | | | | | | | | | | | | | |
| | from occupation | | | | | | | | X | X | | | | | |
| | Tiom occupation | • | | | | | | | | | | | | | |
| 46 | occupation | | | | | | | | | | | | | | |
| | thinking of | | | | | | | | X | | | | | | |
| | - | | | | | | | | | | | | | | |
| 47 | general | | | | | | | | | | | | | | |
| | knowledge of | | | | | | | | | | | | | | |
| | occupation | | X | | | | | | X | | | | | X | X |
| | | | | | | | | | | | | | | | |
| 48 | sources of | | | | | | | | | | | | | | |
| | general | | | | | | | | | | | | | | |
| | information , | X | X | | | | | Х | X | | | X | X | X | |
| | 21120122011 | | | | | | | | | | | | | | |
| 49 | knowledge of | | | | | | | | | | | | | | |
| • - | training | | X | | | | | | X | | X | | | X | X |
| | | | | | | | | | | • | | | | | |
| 5 0 | source of | | | | | | | | | | | | | | |
| | training | | | | | | | | | | | | | | |
| | - | х | x | | | | | X | Х | Х | X | х | X | X | |
| | knowledge | ^ | ^ | | | | | | • | | | | | | |
| 51 | knowledge of | | | | | | | | | | | | | | |
| | wages | | х | | | | | | X | | Х | | | X | X |
| | 9 | | | | | | | | | | | | | | |
| EDIC | ¬" | | | | | | | | | | | | | _ | |
| EKIC | 354 | | | | | | | | | | | | 36 | - .) | |
| Full Text Provided by ERI | | | | | | | | | | | | | J | 1.0 | |

| . — | | | | | • | | | | • | | | • | | | |
|-----------|---|--|--------------|---------|------------------|---------------------|-----------------------|---------------------------------------|-------------------------------|--|---|------------|---|----|-------|
| | | | <u> </u> | - | | | | | | | | خوالگمر ت | ************************************** | | |
| | | Topic and . What Annel Lables' What Industrial lab | | Posper- | No conference of | Types of Schools by | fermany by Type of | Françaistry by Type of Marchant | Tank I was blood Perpensis | ried of information impa/ Options | Description United Serviced Section 1 | Prospering | Countilly An Computeral To Debased Support 199 | | |
| <u>*.</u> | American page | Cont plant | Informat ium | | <u> </u> | | | | | | | | | | |
| 52 | source of wages knowledge | x | x | | | | x | x | x | x | x | x | x | | |
| 53 | knowledge of job security | | x | | | | | x | | x | x | | x | X | |
| 54 | source of job security knowledge | x | x | | | | x | x | x | x | x | x | x | | |
| 55 | knowledge on helping others | | x | | | | | x | | x | | | x | X | -324- |
| 56 | source of know- ledge on helpin others | - ng X | x | | | | x | x | x | x | x | x | x | | 1 |
| 57 | knowledge of activities | | x | | | | | x | | x | | | x | X | |
| 58 | source of , knowledge of activities | x | x | | | , | x | x | x | x | x | x | x | | |
| 59 | reason for usi this source fo activities information | ng or | x | | | | | | × | | | | x | | |
| 60 | | x 56 | x | | | | x | x | | | x | x | x 3 | 67 | |

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APPENDIX D
Responses to School Questionnaire

| NUMBER OF DESERVATIONS | 31 | FRATUM1 540 | | RATUME 668 | | RATUM3 686 | HATL EST |
|------------------------------------|------|----------------|------|---------------|------|---------------|----------|
| ITEMS AND | | | | | | | |
| ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| ALA CURRENT EMPOLLMENT IN GRADE 10 | | | | | | | |
| *01 + | 121 | 22.41 | 10 | 1 50 | 79 | 11.58 | 6.41 |
| 451 - 600 | 122 | 22 59 | 18 | 2.69 | 100 | 14.58 | 8.09 |
| 301 - 450 | 135 | 25 00 | 38 | 5 69 | 174 | 25.36 | 13.42 |
| \$1 - 300 | 129 | 23 89 | 356 | 53.29 | 284 | 41.40 | 47.00 |
| 1 - 50 | 23 | 4 26 | 243 | 36 38 | 41 | 5.98 | 24 18 |
| 0 | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| NOT APPLICABLE | 10 | 1 85 | 3 | 0.45 | 6 | 1.17 | 0.79 |
| DON'T KNOM | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NO RESPONSE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| ALB CURRENT ENROLLMENT IN GRADE 11 | | | | | | | |
| 601+ | 79 | 14 63 | 3 | 0 45 | 65 | 9.48 | 4.47 |
| 451 - 600 | 99 | 18 33 | 23 | 3 44 | 99 | 14.43 | 8.12 |
| 301 - 450 | 166 | 30 74 | 35 | - 24 | 170 | 24.78 | 13.48 |
| 51 - 300 | 168 | 31 11 | 364 | 54.44 | 311 | 45.34 | 49.57 |
| 1 - 50 | 20 | 3.70 | 241 | 36 08 | 37 | 5.39 | 23.77 |
| 0 | ō | 0 0 | 0 | 0.0 | ò | 0.0 | 0.0 |
| HOT APPLICABLE | 8 | 1 48 | 2 | 0 30 | 4 | 0.58 | 0.49 |
| DOM'T KNOW | ō | 0 0 | ō | 0.0 | ó | 0.0 | 0.0 |
| NO REPDONSE | 0 | 0.0 | Ō | 0.0 | ò | 0.0 | 0.0 |
| ALC CURRENT ENR' LMENT IN GRADE 12 | | | | | | | |
| 601+ | 47 | 8 70 | 4 | 0.60 | 43 | 6.27 | 3.05 |
| 451 - 600 | 82 | 15 19 | 10 | 1 50 | 90 | 13.12 | 6.27 |
| 301 - 450 | 158 | 29 26 | 32 | 4 79 | 174 | 25.36 | 13.26 |
| 51 - 300 | 216 | 40 00 | 376 | 56 29 | 334 | 48.69 | 52.46 |
| 1 - 50 | 26 | 4 81 | 245 | 36 68 | 41 | 5.98 | 24.41 |
| 0 | 0 | 0.0 | 0 | 0 0 | Ō | 0.0 | 0.0 |
| NOT APPLICABLE | 11 | 2 04 | 1 | 0 15 | 4 | 0 58 | 0.45 |
| DON'T KHOH | | 0 0 | õ | 0 0 | o | 0.0 | 0.0 |
| NO RESPONSE | Ô | 0 C | Ō | 0 0 | ō | 0.0 | 0.0 |
| | | | | | | | |

369



| HUMBE | ER OF OBSERVATIONS | | | RATUM1 540 | | RATUMZ 668 | | RATUMS 686 | HATL EST |
|-------|--------------------------------|---------------------|--------------|---------------|-------|---------------|------|---------------|----------|
| | ITEMS AND ALTERNATIVES | | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| ASA | PERCENTAGE OF 10TH, 11TH, 12TH | GRADERS IN GENERAL | CURRICULUM | | | | | | |
| | 81 * X | | 27 | 5 00 | 46 | 6 89 | 15 | 2.19 | 5.27 |
| | 61 - 80 Z | | 44 | 8 15 | 58 | 8 68 | 30 | 4.37 | 7.30 |
| | 41 - 60 Z | | 150 | 27 78 | 175 | 26 20 | 129 | 18.80 | 24.04 |
| | 21 - 40 / | | 139 | 25 74 | 2 3 5 | 35 18 | 221 | 32 22 | 33.40 |
| | 1 - 20 / | | 81 | 15 00 | 100 | 14 97 | 202 | 29.45 | 19.40 |
| | 0 X | | 72 | 13 33 | 34 | 5 09 | 53 | 7.73 | 6.62 |
| | NOT APPLICABLE | | 1 | 0 19 | 0 | 0 0 | 5 | 0 73 | 0.24 |
| | DON'T KNOW | | 0 | 0 0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| | NO RESPONSE | | 26 | 4 81 | 5.0 | 2 99 | 30 | 4.37 | 3.57 |
| ASB | PERCENTAGE OF 10TH, 11TH, 12TH | GRADERS IN ACADEMI | C CURRICULUM | | | | | | |
| | 81+ / | | 17 | 3 15 | 4 | 0 60 | 26 | 3.79 | 1.80 |
| | 61 - 80 / | | 43 | 7 96 | 27 | 4 04 | 93 | 13 56 | 7.30 |
| | 41 - 60 / | | 100 | 18 52 | 115 | 17 22 | 172 | 25 07 | 19.73 |
| | 21 - 40 / | | 191 | 35 37 | 309 | 46 26 | 244 | 35 57 | 41 97 |
| | 1 - 20 / | | 105 | 19 44 | 145 | 21 71 | 73 | 10 64 | 18.09 |
| | 0 / | | 56 | 10 37 | 50 | 7 49 | 46 | 6 71 | 7.49 |
| | NOT APPLICABLE | | 3 | 0 56 | 0 | 0 0 | 3 | 0 44 | 0 18 |
| | DON'T KNOW | | 0 | 0 0 | 0 | 0 0 | 1 | 0 15 | 0.04 |
| | NO RESPONSE | | 25 | 4 63 | 18 | 2 69 | 28 | 4.08 | 3.29 |
| AZC | PERCENTAGE OF 10TH, 11TH, 12TH | GRADERS IN VOC/TECH | H CURRICULUM | | | | | | |
| | 81+ 7 | | 36 | 6 67 | 13 | 1 95 | 31 | 4 52 | 3.15 |
| | 61 - 80 / | | 9 | 1 67 | 13 | 1 95 | 6 | 0 87 | 1.59 |
| | 41 - 60 % | | 32 | 5 93 | 69 | 10 33 | 39 | 5 6 9 | 8 51 |
| | 21 - 40 / | | 164 | 30 37 | 281 | 42 07 | 215 | 31 34 | 37.70 |
| | 1 - 20 / | | 220 | 40 74 | 203 | 30 39 | 318 | 46 36 | 36.17 |
| | 0 / | | 56 | 10 37 | 70 | 10 48 | 47 | 6 85 | 9.35 |
| | NOT APPLICABLE | | 1 | 0 19 | 0 | 0 0 | 3 | 0 44 | 0.15 |
| | DON'T KNOW | | 0 | 0 0 | 0 | 0.0 | 1 | 0.15 | 0 04 |
| | NO RESPONSE | | 2.5 | 4 07 | 19 | 2.84 | 26 | 3.79 | 3.24 |
| | | | | | | | | | |



| NUMBER OF OBSERVATIONS | 5 | TRATUM1 540 | | RATUMZ 668 | | RATUMS 686 | HATL EST |
|--|------------------|----------------|------|---------------|------|---------------|-----------|
| ITEMS AND | | | | | | | |
| ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| AZO PERCENTAGE OF 10TH, 11TH, 12TH GRADERS IN OTHE | R CURRICULUM | | | | | | |
| 81+ X | 5 | 0 93 | 0 | 0 0 | 5 | 0.73 | 0.31 |
| 61 - 80 % | 0 | 0 0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| 41 - 60 % | 0 | 0.0 | 2 | 0 30 | ī | 0.15 | 0.23 |
| 21 - 40 / | 12 | 2 22 | 12 | 1.80 | 22 | 3.21 | 2.27 |
| 1 - 20 / | 49 | 9 07 | 54 | 8.08 | 70 | 10.20 | 8.81 |
| 0 X | 426 | 78 89 | 556 | 83.23 | 531 | 77.41 | 80.98 |
| NOT APPLICABLE | 2 | 0.37 | 0 | 0.0 | 2 | 0.29 | 0.12 |
| DON'T KNOH | 0 | 0.0 | ٥ | 0.0 | ī | 0.15 | 0.04 |
| NO RESPONSE | 46 | 8 52 | 43 | 6 44 | 54 | 7.87 | 7.05 |
| ASA PERCENTAGE OF STUDENTS THAT ARE AMER INDIAN O | R ALASKAN NATIVE | | | | | | |
| 81+ / | 0 | 0 0 | 9 | 1 35 | ٤ | 0.29 | 0.90 |
| 61 - 80 / | 1 | 0 19 | i | 0 15 | ò | 0.0 | 0.11 |
| 41 - 60 / | ō | 0 0 | ž | 0 30 | ō | 0.0 | 0.18 |
| 21 - 40 X | 0 | 0 0 | ā | 1.20 | 3 | 0.44 | 0.86 |
| 1 - 20 / | 119 | 22 04 | 144 | 21 56 | 172 | 25.07 | 22.66 |
| 0 7 | 398 | 73 70 | 488 | 73.05 | 477 | 69 53 | 71.96 |
| NOT APPLICABLE | 2 | 0.37 | 0 | 0 0 | 1 | 0.15 | 0.08 |
| DOM'T KNOW | 0 | 0.0 | 1 | 0.15 | ō | 0.0 | 0.09 |
| NO RESPONSE | 20 | 3 70 | 15 | 2.25 | 31 | 4.52 | 3.07 |
| A38 PERCENTAGE OF STUDENTS THAT ARE ASIAN OR PACIF | IC ISLANDER | | | | | | |
| 81+ 7 | 0 | 0 0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| 61 - 80 X | 1 | 0 19 | ō | 0.0 | ž | 0.29 | 0.11 |
| 41 - 60 % | ī | 0 19 | ō | 0 0 | ī | 0 15 | 0.06 |
| 21 - 40 / | 6 | 1 11 | ō | 0 0 | 4 | 0 58 | 0.28 |
| 1 - 20 / | 225 | 41 67 | 116 | 17 37 | 311 | 45.34 | 28.07 |
| 0 / | 291 | 53.89 | 539 | 80 69 | 349 | 50 87 | 69.10 |
| NOT APPLICABLE | î | 0 19 | ó | 0 0 | Ó | 0.0 | 0.02 |
| DON'T KNOW | ō | 0.0 | i | 0.15 | ŏ | 0 0 | 0.09 |
| NO RESPONSE | 15 | 2.78 | 12 | 1 80 | 18 | 2.62 | 2.14 |
| | | | | | | (C | ONTIMUED) |



| HUMBE | ER DF DBSERVATIONS | | RATUM1 540 | | RATUMZ 568 | | RATUM3 686 | NATL EST |
|-------|--|------|---------------|------|---------------|------|---------------|--------------|
| | | | | | | | | |
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | | | | | | | | |
| A3C | | | | | | | , ,, | |
| | 81 • 1 | 88 | 16 30 | 12 | 1.80 | 9 | 1.31 | 2.92 |
| | 61 - 80 % | 41 | 7 59 | 16 | 2 40 | 5 | 0.73 | 2.34 |
| | 41 - 60 / | 83 | 15 37 | 26 | 3 89 | 8 | 1.17 5.98 | 4.06 7.79 |
| | 21 - 40 / | 121 | 22 41 | 44 | 6 59 | 41 | | |
| | 1 - 20 / | 182 | 33 70 | 192 | 28 74 | 396 | 57.73 | 38.05 |
| | 0 / | 24 | 4 44 | 36 9 | 55 24 | 219 | 31 . 92 | 43.56 0.0 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | DON'T KHOM | 0 | 0 0 | 0 | 0 0 1 35 | 8 | 0.0 1.17 | 1.19 |
| | NO RESPONSE | 1 | 0 19 | 9 | 1 35 | • | 1.1/ | 1.14 |
| A 30 | PERCENTAGE OF STUDENTS THAT ARE HISPANIC | | | | | | | |
| | 81 + % | 15 | 2 78 | 4 | 0 60 | 2 | 0.29 | 0.70 |
| | 61 - 80 / | 9 | 1.67 | 5 | 0 75 | 5 | 0 73 | 0.82 |
| | 41 - 60 % | 18 | 3 33 | 7 | 1 05 | 8 | 1 17 | 1.28 |
| | 21 - 40 X | 42 | 7 78 | 9 | 1 35 | 23 | 3.35 | 2.53 |
| | 1 - 20 / | 227 | 42 04 | 165 | 24 70 | 368 | 53 64 | 35.09 |
| | 0 / | 211 | 39 07 | 461 | 69 01 | 265 | 38 63 | 56.98 |
| | NOT APPLICABLE | 1 | 0 19 | 0 | 0 0 | 0 | 0 0 | 0.02 |
| | DOM'T KNOM | 0 | 0 0 | 1 | 0 15 | 0 | 0 0 | 0.09 |
| | NO RESPONSE | 17 | 3 15 | 16 | 2 40 | 15 | 2.19 | 2.40 |
| A3E | PERCENTAGE OF STUDENTS THAT ARE WHITE | | | | | | | |
| | 81+ / | 100 | 18 52 | 509 | 76 2 0 | 540 | ~a 72 | 71.82 |
| | 61 - 80 / | 133 | 24 63 | 66 | 9 88 | 82 | 11 95 | 11 80 |
| | 41 - 60 / | 98 | 18 15 | 32 | 4 79 | 26 | 3 79 | 5 65 |
| | 21 - 40 / | 73 | 13 52 | 31 | 4 64 | 16 | 2 33 | 4.71 |
| | 1 - 20 / | 95 | 17 59 | 5.5 | 3 29 | 17 | 2 48 | 4.30 |
| | 0 / | 39 | 7 22 | 6 | 0 90 | 4 | 0 58 | 1.36 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0 0 |
| | DON'T KNOH | 0 | 0 0 | 0 | 0 0 | ū | 0 0 | 0.0 |
| | NO RESPONSE | 5 | 0 37 | 2 | 0 30 | 1 | 0.15 | 0.26 |
| | | | | | | | 1 1 | CONTINUED) |

| NUMBER OF OBSERVATIONS | | RATUM1 540 | 51 | RATUM2 568 | | RATUMS 686 | NATL EST |
|---|---------------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND | | | | | | | |
| ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| A4A PERCENTAGE OF STUDENTS THAT LIVE IN AN URBA | N COMMUNITY | | | | | | |
| 81 · X | 350 | 64.81 | 15 | 2 25 | 82 | 11.95 | 10.73 |
| 61 - 80 X | 31 | 5.74 | 19 | 2.84 | 17 | 2.48 | 2.98 |
| 41 - 60 % | 29 | 5 37 | 29 | 4.34 | 14 | 2.04 | 3.72 |
| 21 - 40 % | 21 | 3 89 | 28 | 4.19 | 27 | 3.94 | 4.08 |
| 1 - 20 X | 27 | 5.00 | 43 | 6.44 | 47 | 6.85 | 6.43 |
| 0 % | 81 | 15.00 | 532 | 79.64 | 499 | 72 74 | 71.75 |
| NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| DON'T KNOH | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NO RESPONSE | 1 | 0.19 | 2 | 0.30 | 0 | 0.0 | 0.20 |
| A48 PERCENTAGE OF STUDENTS THAT LIVE IN A SUBUR | BAN COMMUNITY | | | | | | |
| 81+ / | 65 | 12 04 | 19 | 2 84 | 319 | 46.50 | 17.05 |
| 61 - 80 % | 26 | 4 81 | 16 | 2.40 | 54 | 7.87 | 4.29 |
| 41 - 60 / | 34 | 6 30 | 18 | 2.67 | 39 | 5.69 | 3.93 |
| 21 - 40 / | 32 | 5 93 | 33 | 4 9- | 45 | 6 56 | 5.52 |
| 1 - 20 / | 53 | > 81 | 47 | 7 04 | 33 | 4 81 | 6.59 |
| 0 | 328 | 60 74 | 533 | 79 79 | 195 | 28 43 | 62.27 |
| NOT APPLICABLE | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| DON'T KHOM | 0 | 0 0 | Ō | 0.0 | 0 | 0.0 | 0.0 |
| NO RESPONSE | 2 | 0.37 | 2 | 0.30 | 1 | 0.15 | 0.26 |
| A4C PERCENTAGE OF STUDENTS THAT LIVE IN A RURAL | COMMUNITY | | | | | | |
| 81+ / | 7 | 1.30 | 481 | 72 01 | 119 | 17.35 | 48.93 |
| 61 - 80 % | 6 | 1 11 | 41 | 6 14 | 24 | 3.50 | 4.88 |
| 41 - 60 % | 9 | 1 67 | 50 | 7.49 | 33 | 4.81 | 6.14 |
| 21 - 40 / | 22 | 4 07 | 36 | 5 39 | 42 | 6.12 | 5.49 |
| 1 - 20 / | 90 | 16 67 | 36 | 5 39 | 132 | 19.24 | 10.63 |
| 0 X | 404 | 74 81 | 24 | 3.59 | 335 | 48 83 | 23.75 |
| NOT APPLICABLE | 1 | 0.19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| DON'T KNOW | Õ | 0 0 | Ō | 0 0 | Ö | 0.0 | 0.0 |
| NO RESPONSE | 1 | 0 19 | 0 | 0 0 | 1 | 0 15 | 0.06 |
| | | | | | | _ | |



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|---|---|--|
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| ¢ | 5 | |

| NUMBER OF DESERVATIONS | | RATUM1 540 | STRATUMŽ 668 | | STRATUH3 686 | | HATL EST | |
|--|-------------|---------------|-----------------|---------|-----------------|---------|------------|--|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT | |
| ACICHIMITATES | | | | | | | | |
| ASA % DF '79 GRADUATING CLASS ENROLLED IN 2-4 YEAR COLLEGE | | | | | | | | |
| 81+ / | 11 | 2.04 | 4 | 0 60 | 2.5 | 3.21 | 1.53 | |
| 61 - 80 X | 48 | 8 89 | 29 | 4 34 | 102 | 14.87 | 7.97 | |
| 41 - 60 Z | 138 | 25 56 | 130 | 19 46 | 190 | 27.70 | 22.51 | |
| 21 - 40 X | 149 | 27 59 | 2 96 | 44 31 | 187 | 27.26 | 37.56 | |
| 1 - 20 / | 87 | 16 11 | 138 | 20 66 | 92 | 13.41 | 18.01 | |
| 0 / | 9 | 1 67 | 4 | 0 60 | 2 | 0.29 | 0.60 | |
| INFORMATION NOT AVAILABLE | 56 | 10 37 | 34 | 5.09 | 55 | 8.02 | 6.45 | |
| DON'T KNOW | 1 | 0 19 | ٥ | 0 0 | 0 | 0.0 | 0.02 | |
| NO RESPONSE | 41 | 7 59 | 33 | 4.94 | 36 | 5.25 | 5.26 | |
| ASB / OF '79 GRADUATING CLASS ENROLLED IN OTHER POST-SECON | DARY SCHOOL | | | | | | | |
| 81 • / | Đ | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 | |
| 61 - 80 / | 2 | 0 37 | 0 | 0 0 | 0 | 0.0 | 0.03 | |
| 41 - 60 / | 1 | 0 19 | 7 | 1 05 | 2 | 0 29 | 0.74 | |
| 21 - 40 / | 34 | 6 30 | 85 | 12 72 | 32 | 4 66 | 9.67 | |
| 1 - 20 / | 352 | 65 19 | 433 | 64 82 | 514 | 74.93 | 67.89 | |
| 0 / | 8 | 1 48 | 21 | 3 14 | 5 | 0 73 | 2.25 | |
| INFORMATION NOT AVAILABLE | 79 | 14 63 | 48 | 7 19 | 76 | 11 08 | 9.03 | |
| DON'T KNOW | 1 | 0 19 | 0 | 0 0 | 0 | 0.0 | 0.02 | |
| NO RESPONSE | 63 | 11 67 | 74 | 11 08 | 57 | 8.31 | 10.27 | |
| ASC / OF '79 GRADUATING CLASS IN APPRENTICE OR HORK TRAIN | NG PROGRAM | | | | | | | |
| 81+ / | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| 61 - 80 / | 1 | 0 19 | 0 | 0 0 | 1 | 0.15 | 0.96 | |
| 41 - 60 / | Ō | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 | |
| 21 - 40 % | 5 | 0 93 | | 1 05 | 6 | 0 87 | 0.98 | |
| 1 - 20 7 | 311 | 57 59 | 2 96 | 44.31 | 3 96 | 57 73 | 49.55 | |
| 0 / | 2.5 | 4 63 | 87 | 13.02 | 39 | 5 69 | 10.02 | |
| INFORMATION NOT AVAILABLE | 110 | 20 37 | 100 | 14 97 | 136 | 19.83 | 16.92 | |
| DON'T KNOH | 2 | 0.37 | 6 | 0 90 | 5 | 0 73 | 0.80 | |
| NO RESPONSE | 86 | 15 93 | 172 | 25.75 | 103 | 15 01 | 21.56 | |
| | | | | | | (1 | CONTINUED) | |

| NUMBER OF OBSERVATIONS | | RATUM] 540 | | RATUM2 668 | | RATUMS 686 | HATL EST |
|---|------|---------------|------|---------------|------|---------------|---------------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| ASD // OF 179 GRADUATING CLASS IN MILITARY SERVICE | | | | | | | |
| 81 + X | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 61 - 80 X | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| 41 - 60 X | 0 | 0 0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| 21 - 40 X | 5 | 0.93 | 7 | 1.05 | 4 | 0.58 | 0.89 |
| 1 - 20 X | 376 | 69.63 | 460 | 68.86 | 514 | 74.93 | 70.7 <u>2</u> |
| 0 | 13 | 2 41 | 49 | 7.34 | 17 | 2.48 | 5.40 |
| INFORMATION NOT AVAILABLE | 92 | 17 04 | 53 | 7.93 | 93 | 13.56 | 10.45 |
| DON'T KNOW | 2 | 0.37 | 1 | 0 15 | 0 | 0.0 | 0.12 |
| NO RESPONSE | 52 | 9.63 | 97 | 14.52 | 58 | 8.45 | 12.21 |
| ASE - X OF 179 GRADUATING CLASS EMPLOYED FULL-TIME | | | | | | | |
| 61+ X | 4 | 0.74 | 8 | 1.20 | 10 | 1.40 | 1.24 |
| 61 - 80 X | 30 | 5 56 | 31 | 4.64 | 23 | 3.35 | 4.32 |
| 41 - 60 X | 73 | 13 52 | 144 | 21.56 | 101 | 14.72 | 18.73 |
| 21 - 40 X | 148 | 27 41 | 224 | 33.53 | 201 | 29.30 | 31.66 |
| 1 - 20 X | 126 | 23 33 | 130 | 19.46 | 178 | 25 95 | 21.77 |
| 0 X | 3 | 0.56 | 3 | 0 45 | 1 | 0.15 | 0.36 |
| INFORMATION NOT AVAILABLE | 106 | 19 63 | 80 | 11.98 | 118 | 17.20 | 14.24 |
| DCY'T KNOH | Ż | 0 37 | 2 | 0.30 | 2 | 0.29 | 0.30 |
| NO RESPONSE | 48 | 8 89 | 46 | 6.89 | 52 | 7.58 | 7.27 |
| ASF / OF '79 GRADUATING CLASS UNEMPLOYED BUT SEEKING HORK | | | | | | | |
| 81+ // | 1 | 0.19 | Ş | 0 30 | 1 | 0.15 | 0.24 |
| 61 - 80 X | 1 | 0.19 | 2 | 0.30 | 1 | 0.15 | 0.24 |
| 41 - 60 X | 3 | 0 56 | 9 | 1 35 | 1 | 0.15 | 0.91 |
| 21 - 40 % | 18 | 3 33 | 28 | 4.19 | * 1 | 2.33 | 3.54 |
| 1 - 20 X | 290 | 53.70 | 374 | 55 99 | • | 57.14 | 56.09 |
| 0 / | 12 | 2.22 | 29 | 4 34 | | 2.62 | 3.62 |
| INFORMTION NOT AVAILABLE | 134 | 24 81 | 109 | 16.32 | 159 | 23.18 | 19.15 |
| DON'T KNOW | 4 | 0 74 | 4 | 0 60 | . 2 | 0.29 | 0.52 |
| NO RESPONSE | 77 | 14.26 | 111 | 16.62 | 96 | 13.99 | 15.59 |
| A6 Z WHO ENTER 10TH GRADE WHO DROP OUT BEFORE GRADUATION | _ | | | | | | 30.05 |
| 0 - 14 X | 297 | 55 00 | 554 | 82 93 | 559 | 81.49 | 79.95 |
| 15 - 29 7 | 160 | 29 63 | 81 | 12 13 | 85 | 12.39 | 13.74 |
| 30 - 49 X | 40 | 7.41 | 11 | 1 65 | 8 | 1.17 | 2.00 |
| 50% OR MORE | 13 | 2 41 | 2 | 0 30 | 4 | 0.58 | 0.57 |
| SCHOOL HAS NO 10TH GRADE | 7 | 1.30 | 3 | 0 45 | 5 | 0.73 | 0.61 |
| DOH'T KNOM | 12 | 5 55 | 3 | 0 45 | 8 | 1.17 | 0.82 |
| NO RESPONSE | 11 | 2.04 | 14 | 2.10 | 17 | 2.48 | 2.21 |

| HUMB | NUMBER OF OBSERVATIONS | 31 | RATUM1 540 | | RATUMS 668 | STRATUMS 686 | | HATL EST | |
|------|---|------------------|---------------|---------|---------------|-----------------|--------------|---------------|--|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT | |
| A7 | NUMBER FULL-TIME EQUIV. PROF. GUID. COUNSELORS EM | PLOYED AT SCHOOL | | | | | | | |
| | 7.01+ | 48 | 8.89 | 2 | 0.30 | 40 | 5.83 | 2.75 | |
| | 4.01 - 7.00 | 32 | 5.93 | 2 | 0.30 | 27 | 3.94 | 1.91 | |
| | 5.01 - 6.00 | 51 | 9.44 | 4 | 0.60 | 71 | 10.35 | 4.37 | |
| | 4.01 - 5.00 | 92 | 17.04 | 14 | 2.10 | 91 | 13.27 | 6.84 | |
| | 3.01 - 4.00 | 98 | 18.15 | 28 | 4.19 | 113 | 16.47 | 9.19 | |
| | 2.01 - 3.00 | 84 | 15.56 | 59 | 8.83 | 124 | 18.08 | 12.25 | |
| | 1.01 - 2.00 | 77 | 14.26 | 144 | 21.56 | 101 | 14.72 | 18.50 | |
| | .01 - 1.00 | 48 | 8.89 | 360 | 53.89 | 107 | 15.60 | 38.12 | |
| | 0.00 | 9 | 1.67 | 55 | 8.23 | 12 | 1.75 | 5.66 | |
| | NOT APPLICABLE | 9 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| | NO RESPONSE | 1 | Ď.19 | 0 | 0.0 | 0 | 0.0 | 0.02 | |
| AB | DOES SOMEONE SERVE AS DIRECTOR OR HEAD OF CARE | ER GUIDANCE ? | | | | | | | |
| | YES | 336 | 55.56 | 427 | 63.92 | 425 | 61.95 | 63.10 | |
| | NO | 199 | 36 85 | 530 | 34.43 | 245 | 35.71 | 35.00 | |
| | NOT APPLICABLE | 0 | 0.0 | D | 0.0 | 0 | 0.0 | 0.0 | |
| | DON'T KNOM | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| | NO RESPONSE | 5 | 0.93 | 11 | 1.65 | 16 | \$.33 | 1.79 | |
| 1 | MHICH OF THE FOLLOWING BEST DESCRIBES YOUR POS | ITION? | | | | | | | |
| | DIRECTOR OF GUIDANCE | 119 | 22.04 | 138 | 20.66 | 178 | 25.95 | 22.38 | |
| | COORDINATOR OF CAREER EDUCATION | 80 | 14.81 | 36 | 5.39 | 92 | 13.41 | 8.68 | |
| | GUIDANCE COUNSELOR | 189 | 35.00 | 363 | 54.34 | 241 | 35.13 | 46.69 | |
| | CAREER EDUCATION SPECIALIST | 43 | 7. 96 | 13 | 1.95 | 58 | 8.45 | 4.4, | |
| | PRINCIPAL OR ASSISTANT PRINCIPAL | 67 | 12.41 | 100 | 14.97 | 72 | 10.50 | 13.36 | |
| | VOC. ED. TEACHER | 5 | 0.93 | 9 | 1.35 | 7 | 1.02 | 1.21 1.04 | |
| | NON VOC. ED. TEACHER | 3 | 0.56 | 70 | 1 50 | 2 7 | 0.29 1.02 | 1.22 | |
| | LIBRARIAN | _6_ | 1.11 | 9 | 1.35 | 69 | 9.33 | 7.32 | |
| | OTHER | 57 | 10.56 | 39 0 | 5.84 0.0 | 0 | 7.33 0.0 | 0.0 | |
| | NOT APPLICABLE | 0 | 0.0 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| | DON'T KNOW | 0 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 | |
| | NO RESPONSE | 1 | 0.19 | · | 0.0 | • | V. U | V. V. | |
| ŽĀ | EFFECTIVENESS-COUNSELOR REFERRALS IN GETTING | | | | | = | | 33 | |
| | VERY EFFECTIVE | 286 | 52.96 | 295 | 44.16 | 344 | 50.15 | 46.73 | |
| | SOMEWHAT EFFECTIVE | 218 | 40.37 | 316 | 47.31 | 314 | 45.77 | 46.10 1.35 | |
| | NOT EFFECTIVE | 8 | 1.48 | 8 | 1.20 | 11 | 1.60 | 4.12 | |
| | METHOD NOT USED | 9 | 1.67 | 39 | 5.84 | 10 | 1.46 D.0 | 0.0 | |
| | DON'T KNON | .0 | 0.0 | .0 | 0.0 | 7 | 1.02 | 1.53 | |
| | NO RESPONSE | 19 | 3.52 | 10 | 1.50 | , | 1.02 | 1.33 | |
| | | | | | | | | | |





| HUMB! | ER OF OBSERVATIONS | | RATUM <u>)</u> 540 | | RATUMZ 568 | | RATUHS 686 | MATL EST |
|-------|---|-----------------|-----------------------|------|---------------|------|---------------|----------|
| | ITEMS AND | | | | | | | |
| | ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 23 | EFFECTIVENESS-TEACHER REFERRALS IN GETTING STUDENTS | L TO USE OCC. T | NFO. | | | | | |
| | VERY EFFECTIVE | 172 | 31.85 | 199 | 29.79 | 197 | 28.72 | 29.61 |
| | SOMEWHAT EFFECTIVE | 314 | 58.15 | 405 | 60.63 | 411 | 59.91 | 60.13 |
| | NOT EFFECTIVE | 26 | 4.81 | 31 | 4.64 | 54 | 7.87 | 5.64 |
| | METHOD NOT USED | ii | 2.04 | 22 | 3.29 | 14 | 2.04 | 2.80 |
| | DON'T KNOW | | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | HO RESPONSE | 17 | 3.15 | 11 | 1.65 | 10 | 1.46 | 1.72 |
| 5C | EFFECTIVENESS-BULLETIN DISPLAYS IN GETTING STUDENTS | TO USE OCC IN | FO. | | | | | |
| | VERY EFFECTIVE | 51 | 9.44 | 37 | 5.54 | 31 | 4.52 | 5.56 |
| | SOMEWHAT EFFECTIVE | 335 | 62.04 | 403 | 60.33 | 393 | 57.29 | 59.49 |
| | NOT EFFECTIVE | 105 | 19.44 | 174 | 26.05 | 208 | 30.32 | 26.75 |
| | METHOD NOT USED | 31 | 5.74 | 40 | 5.99 | 42 | 6.12 | 6.00 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | Ō | 0.0 | 0.0 |
| | NO RESPONSE | 18 | 3.33 | 14 | 2.10 | 12 | 1.75 | 2.10 |
| 20 | EFFECTIVENESS-SCHOOL PAPER NOTICES IN GETTING STUDE | ENTS TO USE OCC | INFO | | | | | |
| | VERY EFFECTIVE | 30 | 5.56 | 15 | 2.25 | 32 | 4.66 | 3.28 |
| | SOMEWHAT EFFECTIVE | 234 | 43.33 | 247 | 36.98 | 265 | 38.63 | 38.01 |
| | NOT EFFECTIVE | 95 | 17.59 | 137 | 20.51 | 163 | 23.76 | 21.23 |
| | METHOD NOT USED | 161 | 29.81 | 247 | 36.98 | 213 | 31.05 | 34.49 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | HO RESPONSE | 20 | 3.70 | 22 | 3.29 | 13 | 1.90 | 2.90 |
| 3.5 | EFFECTIVENESS-CLASS ANNOUNCEMENTS IN GETTING STUDE | ITS TO USE OCC | INFO | | | | | |
| | VERY EFFECTIVE | 114 | 21.11 | 102 | 15.27 | 88 | 12.83 | 15.02 |
| | SOMEWHAT EFFECTIVE | 311 | 57.59 | 392 | 58.68 | 429 | 62.54 | 59.71 |
| | NOT EFFECTIVE | 57 | 10.56 | 101 | 15.12 | 93 | 13.56 | 14.22 |
| | METHOD NOT USED | 44 | 8.15 | 60 | 8.98 | 66 | 9.62 | 9.10 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 14 | 2.59 | 13 | 1.95 | 10 | 1.46 | 1.85 |
| 2 F | EFFECTIVENESS-GROUP VISITO IN GETTING STUDENTS TO A | SE OCC INFO | | | | | | |
| | VERT EFFECTIVE | 304 | 56.30 | 278 | 41.62 | 327 | 47.67 | 44.72 |
| | SOMEWHAT EFFECTIVE | 185 | 34.25 | 328 | 49.10 | 299 | 43.59 | 46.05 |
| | NOT EFFECTIVE | 7 | 1.30 | 17 | 2.54 | 16 | 2.33 | 2.37 |
| | METHOD NOT USED | 31 | 5.74 | 34 | 5.09 | 38 | 5.54 | 5.28 |
| | DOH'T KNOH | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 13 | 2.41 | 11 | 1.65 | 6 | 0.87 | 1.47 |
| | | | | | | | | |



| NUMBER OF OBSERVATIONS | | RATUM1 540 | | RATUMŽ 668 | - - | RATUM3 686 | HATL EST | |
|------------------------|---|---------------|------------|---------------|----------------|---------------|----------|--------------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 26 | EFFECTIVENESS-OTHER METHODS IN GETTING STUDENTS TO USE OF | C INFO | | _ | | | | |
| | VERY EFFECTIVE | 88 | 16.30 | 78 | 11.68 | 151 | 22.01 | 15.24 |
| | SOMEWHAT EFFECTIVE | 25 | 4.63 | 29 | 4,34 | 36 | 5.25 | 4.64 |
| | NOT EFFECTIVE | _0 | 0.0 | 1 | 0.15 | 3 | 0.44 | 0.22 |
| | METHOD NOT USED | 39 | 7.22 | 45 | 6.74 | 47 | 6.85 | 6.81 |
| | DON'T KHON | . 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 388 | 71.85 | 515 | 77.10 | 449 | 65.45 | 72 . 98 |
| 34 | PERSON RESPONSIBLE FOR PLANNING MAJOR EXPENDITURES RELATI | ED TO OCC | : INFO | | | | | |
| - | PRINCIPAL OR ASSISTANT PRINCIPAL | 201 | 37.22 | 242 | 36.23 | 210 | 30.61 | 34 . 55 |
| | TEACHER | 18 | 3.33 | 5.5 | 3.29 | 14 | 2.04 | 2.91 |
| | GUIDANCE | 145 | 26.85 | 230 | 34.43 | 269 | 39.21 | 35.20 |
| | CAREER EDUCATION | 82 | 15.19 | 46 | 6.89 | 119 | 17.35 | 10.82 |
| | LIBRARIAN | 30 | 5.56 | 28 | 4.19 | 26 | 3.79 | 4.18 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 47 | 8.70 | 14 | 2.10 | 18 | 2.62 | 2.84 |
| | OTHER | 16 | 2.96 | 49 | 7.34 | 50 | 2.92 | 5.59 |
| | TASK NOT PERFORMED | 22 | 4.07 | 38 | 5.69 | 18 | 2.62 | 4.60 |
| | DON'T KNOW | Đ | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 15 | 2.22 | 8 | 1.20 | 12 | 1.75 | 1.46 |
| 38 | PERSON RESPONSIBLE FOR EVALUATING NEH/REPLACEMENT OCC MA | TERIALS | | | | | | |
| 36 | PRINCIPAL OR ASSISTANT PRINCIPAL | 71 | 13.15 | 93 | 13.92 | 56 | 8.16 | 12.07 |
| | TEACHER | 50 | 9.26 | 79 | 11.83 | 47 | 6.85 | 10.06 |
| | GUIDANCE | 223 | 41.30 | 350 | 52.40 | 353 | 51.46 | 51.08 |
| | CAREER EDUCATION | 120 | 22.22 | 71 | 10.63 | 161 | 23.47 | 15.58 |
| | LIBRARIAN | 42 | | 45 | 6.74 | 43 | 6.27 | 6.68 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 26 | 4.81 | 6 | 0.95 | 8 | 1.17 | 1.32 |
| | OTHER | 15 | 2.78 | 16 | 2.40 | 19 | 2.77 | 2.54 |
| | TASK NOT PERFORMED | 19 | | 17 | 2.54 | 14 | 2.04 | 2.47 |
| | DON'T KNOW | Ó | 0.0 | ō | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 11 | 2.04 | 7 | 1.05 | 11 | 1.60 | 1.30 |
| | TO RESPONSE | | - · | | = | | | |



| HUME | OF OBSERVATIONS STRATUM2 540 568 | | | | RATUM3 686 | NATL EST | | |
|------|---|--------|---------|------|---------------|----------|---------|---------|
| | ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 30 | PERSON RESPONSIBLE FOR HELPING STUDENTS LOCATE SPECIFIC OCC | TNFO | | | | | | |
| | PRINCIPAL OR ASSISTANT PRINCIPAL | 2 | 0.37 | 26 | 3.89 | 5 | 0.73 | 2.61 |
| | TEACHER | 51 | 9.44 | 45 | 6.74 | 43 | 6.27 | 6.82 |
| | GUIDANCE | 286 | 52.96 | 461 | 69.01 | 401 | 58.45 | 64.29 |
| | CAREER EDUCATION | 142 | 26.30 | 57 | 8.53 | 171 | 24.93 | 15.12 |
| | LIBRARIAN | 74 | 13.70 | 89 | 13.32 | 78 | 11.37 | 12.74 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 3 | 0.56 | 1 | 0.15 | ī | 0.15 | 0.18 |
| | OTHER | 2+ | 4.44 | 13 | 1.95 | 85 | 4.08 | 2.82 |
| | TASK NOT PERFORMED | 1 | 0.19 | 3 | 0.45 | 0 | 0.0 | 0.29 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 9 | 1.67 | 8 | 1.20 | 8 | 1.17 | 1.23 |
| 30 | PERSON RESPONSIBLE FOR ARRANGING SPECIAL PROGRAMS, EVENTS, OR | DAYS | | | | | | |
| | PRINCIPAL OR ASSISTANT PRINCIPAL | 60 | 11.11 | 124 | 18.56 | 53 | 7.73 | 14.56 |
| | TEACHER | 37 | 6.85 | 39 | 5.84 | 44 | 6.41 | 6.10 |
| | GUIDANCE | 271 | 50.19 | 417 | 62.43 | 384 | 55.98 | 59.31 |
| | CAREER EDUCATION | 151 | 27.96 | 62 | 9.28 | 175 | 25.51 | 15.90 |
| | LIBRARIAN | 1 | 0.19 | 3 | 0.45 | 4 | 0.58 | 0.47 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 4 | 0.74 | 2 | 0.30 | 3 | 0.44 | 0.38 |
| | OTHER | 20 | 3.70 | 12 | 1.80 | 27 | 3.94 | 2.62 |
| | TASK NOT PERFORMED | 10 | 1.85 | 17 | 2.54 | 16 | 2.33 | 2.42 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 14 | 2.59 | 10 | 1.50 | 13 | 1.90 | 1.71 |
| 36 | PERSON RESPONSIBLE FOR SUPERVISING EXPLORATORY WORK-EXPERIE | NCE PE | ₹OG. | | | | | |
| | PRINCIPAL OR ASSISTANT PRINCIPAL | 18 | 3.33 | 59 | 8.83 | 28 | 4.08 | 6.88 |
| | TEACHER | 161 | 29.81 | 152 | 22.75 | 196 | 28.57 | 25.14 |
| | GUIDANCE | 120 | 22.22 | 168 | 25.15 | 134 | 19.53 | 23.14 |
| | CAREER EDUCATION | 124 | 22.96 | 71 | 10.63 | 130 | 18.95 | 14.26 |
| | LIBRARIAN | 1 | 0.19 | 2 | 0.30 | 0 | 0.0 | 0.20 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 9 | 1.67 | 15 | 2.25 | 17 | 2.48 | 2.26 |
| | OTHER | 64 | 11.85 | 37 | 5.54 | 86 | 12.54 | 8.24 |
| | TASK NOT PERFORMED | 50 | 9.26 | 166 | 24.85 | 74 | 13.70 | 20.03 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 11 | 2.04 | 11 | 1.65 | 14 | 2.04 | 1.80 |
| | | | | | | | | |



| HUMB | ER OF OBSERVATIONS | 51 | TRATUM1 540 | | SMUTAR 668 | | RATUM3 666 | NATL EST |
|------------|--|--|----------------|------|---------------|------|---------------|----------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 3 <i>F</i> | PERSON RESPONSIBLE FOR MAKING AVAILABLE JOB INFO O | . F. | uT e | | | | | |
| 31 | PRINCIPAL OR ASSISTANT PRINCIPAL | 13 | 2.41 | 36 | 5.39 | 8 | 1.17 | 3.82 |
| | TEACHER | 49 | 9.07 | 32 | 4.79 | 46 | 6.71 | 5.75 |
| | GUIDANCE | 149 | 27.59 | 243 | | 196 | 28.57 | 33,17 |
| | CAREER EDUCATION | 86 | 15.93 | 45 | 6.74 | 81 | 11.81 | 9.10 |
| | LIBRARIAN | 1 | 0.19 | 4 | 0.60 | 0 | 0.0 | 0.38 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 13 | 2.41 | 5 | 0.75 | 11 | 1.60 | 1.16 |
| | OTHER | 23 | | 17 | 2.54 | 32 | 4.66 | 3,34 |
| | TASK NOT PERFORMED | 199 | - | 283 | 42.37 | 310 | 45.19 | 42.70 |
| | DON'T KNOW | - , , | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 14 | 2.59 | 10 | 1.50 | 11 | 1.60 | 1.62 |
| 3 G | PERSON RESPONSIBLE FOR DECIDING TO DISCARD OLD OCC | INFO MATERIALS | 5 | | | | | |
| | PRINCIPAL OR ASSISTANT PRINCIPAL | 39 | | 78 | 11.68 | 37 | 5.39 | 9.34 |
| | TEACHER | 40 | 7.41 | 48 | 7.19 | 35 | 5.10 | 6.56 |
| | GUIDANĈĒ | 253 | 46.85 | 401 | 60.03 | 374 | 54.52 | 57.12 |
| | CAREER EDUCATION | 124 | 22.96 | 56 | 8.38 | 167 | 24.34 | 14.56 |
| | LIBRARIAN | 61 | 11.30 | 67 | 10.03 | 61 | 8.89 | 9.78 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 9 | 1.67 | 2 | 0.30 | 3 | 0.44 | 0.46 |
| | OTHER | 21 | 3.89 | 15 | 2.25 | 18 | 2 . 6 2 | 2.50 |
| | TASK NOT PERFORMED | 15 | 2.78 | 14 | 2.10 | 15 | 2.19 | 2.18 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 13 | 2.41 | 9 | 1.35 | 9 | 1.31 | 1.43 |
| 3H | PERSON RESPONSIBLE FOR MAINTAINING INDEX OF OCC IN | FO MATERIALS | | | | | | |
| | PRINCIPAL OR ASSISTANT PRINCIPAL | 4 | 0.74 | 15 | | 6 | 0.87 | 1.69 |
| | TEACHER | 15 | 2.78 | 17 | | 16 | 2.33 | 2.50 |
| | GUIDANCE | 255 | 47.22 | 397 | 59.43 | 323 | 47.08 | 54.51 |
| | CAREER EDUCATION | 131 | 24.26 | 57 | 8 53 | 166 | 24.20 | 14.72 |
| | LIBRARIAN | 101 | 18.70 | 135 | 20.21 | 155 | 17.78 | 19.31 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 4 | 0.74 | 2 | 0.30 | 3 | 0.44 | 0.38 |
| | OTHER | 19 | 3.52 | 18 | 2.69 | 34 | 4.96 | 3.46 |
| | TASK NOT PERFORMED | 29 | 5.37 | 37 | | 34 | 4.96 | 5.34 |
| | DON'T KHOH | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 10 | 1.85 | 8 | 1.20 | 8 | 1.17 | 1.24 |
| | | | | | | | | |



| HUM | ER OF GRIERVATIONS | | RATURI 540 | _ | RATURE 668 | - | RATUM) 406 | MATL EST |
|-----|---|-------------|---------------|------|---------------|------|---------------|------------|
| | ITEMS AND | | | | | | | |
| | ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| M | PERSON RESPONSIBLE FOR EXTERNAL AGENCY SOURCES OF OCC | INFO MATERI | ALS | | | | | |
| | PRINCIPAL OR ASSISTANT PRINCIPAL | 21 | 3.89 | 54 | 8.08 | 17 | 2.48 | 5.99 |
| | TEACHER | 31 | 5.74 | 32 | 4.79 | 40 | 5.43 | 5.19 |
| | GUIDANCE | 200 | \$3.33 | 460 | 68.84 | 375 | 54.66 | 63,07 |
| | CAREER EDUCATION | 170 | 31.48 | 76 | 11.38 | 186 | 27.11 | 17.97 |
| | LIBRARIAN | 6 | 1.11 | 11 | 1.65 | • | 1.31 | 1.50 |
| | STATE, REGIONAL, OR DISTRICT STAFF | 5 | 0.93 | 3 | 0.45 | 13 | 1.90 | 0.93 |
| | OTHER | 16 | 2.96 | 12 | 1.80 | 40 | 5.83 | 3.14 |
| | TASK NOT PERFORMED | 27 | 5.00 | 32 | 4.79 | 32 | 4.66 | 4.77 |
| | DON'T KNOM | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | HO RESPONSE | 9 | 1.67 | 9 | 1.35 | 8 | 1.17 | 1.38 |
| 44 | TO WHAT EXTENT DO PROF. GUID. COUNS. DIRECT STUDENTS TO G | ENERAL DCC | INFO | | | | | |
| | NOT AT ALL | 8 | 1.48 | 19 | 2.84 | 8 | 1.17 | 2.21 |
| | SOMENHAT | 168 | 31.11 | 173 | 25.90 | ₹13 | 31.05 | 27.91 |
| | A GREAT DEAL | 346 | 64.07 | 436 | 65.27 | 447 | 65.16 | 65.07 |
| | NOT APPLICABLE | 3 | 0.56 | 22 | 3.29 | 6 | 0.87 | 2.31 |
| | DON'T KNOW | 4 | 0.74 | 7 | 1.05 | 3 | 0.44 | 0.83 |
| | NO RESPONSE | 11 | 2.04 | 11 | 1.65 | • | 1.31 | 1.56 |
| 48 | TO MHAT EXTENT DO PROF. GUID. COUNS. DIRECT STUDENTS TO S | PECIFIC OCC | INFO | | | | | |
| | NOT AT ALL | 8 | 1.48 | 19 | 2.84 | 20 | 2.92 | 2.74 |
| | SOMEWHAT | 155 | 28.70 | 148 | 22.16 | 191 | 27.84 | 24.46 |
| | A GREAT DEAL | 358 | 66.30 | 459 | 68.71 | 455 | 66.33 | 67.70 |
| | NOT APPLICABLE | 3 | 0.56 | 22 | 3.29 | 6 | 0.87 | 2.31 |
| | DON'T KNOW | 5 | 0.93 | 8 | 1.20 | 4 | 0.58 | 0.98 |
| | NO RESPONSE | 11 | 2.00 | 12 | 1.80 | 10 | 1.46 | 1.71 |
| 4C | TO WHAT EXTENT DO PROF. GUID. COUNS. ANSHER STUDENT OCC I | NFO QUESTIO | NS | | | | | |
| | NOT AT ALL | 6 | 1.11 | 20 | 2.99 | 13 | 1.90 | 2.49 |
| | SOMEWHAT | 142 | 26.30 | 133 | 19.91 | 176 | 25.66 | 22.22 |
| | A GPEAT DEAL | 371 | 68.70 | 471 | 70.51 | 472 | 68.80 | 69.76 |
| | NOT APPLICABLE | 3 | 0.56 | 22 | 3.29 | 6 | 0.87 | 2.31 |
| | DON'T KNOW | 7 | 1.30 | 11 | 1.65 | 7 | 1.02 | 1.42 |
| | NO RESPONSE | 11 | 2.04 | 11 | 1.65 | 12 | 1.75 | 1.71 |
| | | | | | | | ((| CONTINUED) |



393

| HJ/B | ER OF COSERVATIONS | - | RATUMI 540 | | RATUME 668 | STRATUM3 484 | | MATL EST | |
|------|--|-------------|---------------|------|---------------|-----------------|-----------------------|----------|--|
| | ITEMS AND ALTERNATIVES | 2963 | PERCENT | 2010 | PERCENT | 1919 | PERCE ¹² 7 | PERCENT | |
| | Vf:Euse (1AE) | FRE | PERCENT | **** | PERCENT | ***** | FERGE ! | renge | |
| 40 | TO MHAT EXTENT DO PROF. GUID. COUNS. INTERPRET STUDENT'S C | CC INFO | | | | | | | |
| - | HOT AT ALL | 19 | 3.52 | 28 | 4.19 | 19 | 2.77 | 3.69 | |
| | SOMEWAT | 198 | 36.67 | 227 | 33.78 | 289 | 42.13 | 34.69 | |
| | A GREAT DEAL | 2 96 | 54.81 | 372 | 55.69 | 348 | 50.73 | 54.03 | |
| | NOT APPLICABLE | 3 | 0.56 | 22 | 3.29 | • | 0.87 | 8.31 | |
| | DON'T KNOM | 15 | 2.22 | 9 | 1.35 | 12 | 1.75 | 1.55 | |
| | NO RESPONSE | 12 | 2.22 | 10 | 1.50 | 15 | 1.75 | 1.64 | |
| 4E | TO MAY EXTENT DO PROF. GUID. COUNS. ASSIST STUDENTS WITH | CAREER DEC | ISIONS | | | | | | |
| | NOT AT ALL | 10 | 1.85 | 24 | 3.59 | • | 0.07 | 66.5 | |
| | SOMEWHAT | 178 | 32.96 | 200 | 29.94 | 233 | 33.97 | 31.41 | |
| | A GREAT DEAL | 326 | 60.37 | 401 | 60.03 | 420 | 61.22 | 60.37 | |
| | NOT APPLICABLE | 5 | 0.93 | 22 | 3.29 | 6 | 0.87 | 2.34 | |
| | DON'T KNOM | ē | 1.48 | 11 | 1.65 | 8 | 1.17 | 1.48 | |
| | NO RESPONSE | 13 | 2.41 | 10 | 1.50 | 13 | 1.90 | 1.70 | |
| 5 | WHO ARE MERBERS OF COMMITTEE TO REVIEW OCC INFO MATERIA | LS OR PROG | PAMS | | | | | | |
| • | PRINCIPAL | 53 | 9.81 | 63 | 9.43 | 53 | 7.73 | 8.93 | |
| | GUIDANCE COUNSELORS | 128 | 23.70 | 123 | 18.41 | 160 | 23.32 | 20.37 | |
| | CAREER ED. STAFF | 64 | 11.85 | 48 | 7.19 | 91 | 13.27 | 7.46 | |
| | STUDENTS | 29 | 5.37 | 19 | 2.84 | z, | 3.06 | 3.13 | |
| | EACHERS | 78 | 14.44 | 71 | 10.63 | Ł | 11.66 | 11.27 | |
| | LIBRARIAN | 56 | 10.37 | 63 | 9.43 | 57 | 8.31 | 9.16 | |
| | LOCAL EMPLOYERS, LABOR LEADERS, CONTRINITY REPS. | 33 | 6.11 | 23 | 3.44 | 42 | 6.12 | 4.50 | |
| | REGIONAL OR STATE AGENCY REPS. | 18 | 3.33 | 7 | 1.05 | 16 | 2.33 | 1.64 | |
| | PARENTS | 31 | 5.74 | 20 | 2.99 | 24 | 3.50 | 3.39 | |
| | OTHER | 15 | 2.78 | 13 | 1.95 | 55 | 3.21 | 2.40 | |
| | WE HAVE NO COMMITTEE | 359 | 66.48 | 512 | 76.65 | 477 | 69.53 | 73.49 | |
| | DON'T KNOW | 0 | 0.0 | D | 0.0 | 0 | 0.0 | 0.0 | |
| | NO RESPONSE | 9 | 1.67 | 8 | 1.20 | 8 | 1.17 | 1,23 | |
| 64 | X OF PROF. TIME WITH STUDENTS INVOLVING CHOICE OF HIGH ! | SCHOOL COUR | 385 | | | | | | |
| | 0 - 14 X | 66 | 12.22 | 199 | 29.79 | 116 | 16.91 | 24.26 | |
| | 15 - 29 X | 150 | 27.78 | 256 | 38.32 | 243 | 35.42 | 36.47 | |
| | 30 - 49 X | 153 | 28.33 | 116 | 17.37 | 206 | 30.03 | 22.20 | |
| | 50 X OR MORE | 147 | 27.22 | 54 | 8.08 | 91 | 13.27 | 11.35 | |
| | NOT APPLICABLE | 5 | 0.93 | 19 | 2.84 | 5 | 0.73 | 2.02 | |
| | DON'T KNOM | 4 | 0.74 | 10 | 1.50 | 6 | 0.87 | 1.24 | |
| | NO RESPONSE | 15 | 2.78 | 14 | 2.10 | 19 | 2.77 | 2.36 | |
| | | | | | | | | | |



| NUMB | ER OF OBSERVATIONS | \$1 | RATUM1 540 | 31 | RATUM2 468 | | ratums 686 | NATL EST |
|------|--|-------------------|---------------|------|---------------|------|-------------------|----------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 68 | X OF PROF. TIME WITH STUDENTS INVOLVING COLLEGE A | DMISSION/SELECTIO |)N | | | | | |
| | 0 - 14 X | 117 | 21.67 | 121 | 18.11 | 120 | 17.49 | 10.22 |
| | 15 - 29 X | 213 | 39.44 | 306 | 45.81 | 325 | 47.38 | 45.48 |
| | 30 - 49 X | 123 | 22.78 | 149 | 22.31 | 154 | 22.45 | 22.37 |
| | 50 X OR MORE | 63 | 11.67 | 48 | 7.19 | 52 | 7.58 | 7.69 |
| | NOT APPLICABLE | 5 | 0.93 | 19 | 2.84 | 5 | 0.73 | 2.02 |
| | DON'T KNOW | 3 | 0 56 | 10 | 1.50 | 9 | 1.31 | 1.36 |
| | NO RESPONSE | 16 | 2.96 | 15 | 2.25 | 21 | 3.06 | 2.56 |
| 60 | X OF PROF. TIME WITH STUDENTS INVOLVING OCC CHOIC | E/CAREER PLANNING | , | | | | | |
| | 0 - 14 X | 126 | 23.33 | 152 | 22.75 | 184 | 26.82 | 24.03 |
| | 15 - 29 X | 233 | 43.15 | 295 | 44.16 | 303 | 44.17 | 44.03 |
| | 30 - 49 X | 96 | 17.78 | 137 | 20.51 | 134 | 19.53 | 19.95 |
| | 50 % OR MORE | 58 | 10.74 | 36 | 5.39 | 24 | 3.50 | 5.27 |
| | NOT APPLICABLE | 5 | 0.93 | 19 | 2.84 | 6 | 0.87 | 2.07 |
| | DON'T KNOW | 5 | 0.93 | 10 | 1.50 | 8 | 1.17 | 1.34 |
| | NO RESPONSE | 17 | 3.15 | 19 | 2.84 | 27 | 3.94 | 3.20 |
| 60 | X OF PROF. TIME WITH STUDENTS INVOLVING JOB PLACE | MENT | | | | | | |
| | 0 - 14 X | 353 | 65.37 | 502 | 75.15 | 510 | 74.34 | 73.97 |
| | 15 - 29 X | 86 | 15.93 | 80 | 11.98 | 83 | 12.10 | 12.35 |
| | 30 - 49 X | 33 | 6.11 | 17 | 2.54 | 19 | 2.77 | 2.93 |
| | 50 % OR HORE | 23 | 4.26 | 2 | 0.30 | 7 | 1.02 | 0.87 |
| | NOT APPLICABLE | 6 | 1.11 | 19 | 2.84 | 7 | 1.02 | 2.13 |
| | DON'T KNOH | 22 | 4.07 | 26 | 3.89 | 29 | 4.23 | 4.01 |
| | NO RESPONSE | 17 | 3.15 | 22 | 3.29 | 31 | 4.52 | 3.65 |
| 6Ε | % OF PROFITIME WITH STUDENTS INVOLVING ATTENDANC | E/DISCIPLINE/ETC | PROB | | | | | |
| | 0 - 14 X | 136 | 25.19 | 248 | 37.13 | 180 | 26.24 | 32.70 |
| | 15 - 29 X | 161 | 29.81 | 211 | 31.59 | 226 | 32. 94 | 31.82 |
| | 30 - 49 X | 129 | 23.89 | 122 | 18.26 | 171 | 24.93 | 20.79 |
| | 50 % OR MORE | 80 | 14.81 | 37 | 5.54 | 65 | 9.48 | 7.56 |
| | NOT APPLICABLE | 5 | 0.93 | 20 | 2.99 | 7 | 1.02 | 2.20 |
| | DON'T KNOW | 13 | 2.41 | 13 | 1.95 | 15 | 2.19 | 2.06 |
| | NO RESPONSE | 16 | 2.96 | 17 | 2.54 | 2.5 | 3.21 | 2.78 |
| 7 | SYSTEMS USED FOR CATALOGUING, FILING, INDEXING OCC | INFO RESOURCES | | | | | | |
| | ALPHABETICAL BT OCCUPATION TITLE | 387 | 71.67 | 433 | 64.82 | 504 | 73.47 | 68.01 |
| | TYPE OR LEVEL OF EDUCATION OR TRAINING | 172 | 31.85 | 235 | 35.18 | 238 | 34.69 | 34.70 |
| | RELATED SCHOOL SUBJECTS | 149 | 27.59 | 143 | 21.41 | 197 | 28.72 | 24.17 |
| | INTEREST FIELDS | 179 | 33.15 | 215 | 32.19 | 251 | 36.59 | 33.59 |
| ~ | TYPE OF INDUSTRY OR EMPLOYER | 172 | 31.85 | 183 | 27.40 | 228 | 33.24 | 29.55 |
| | | | | | | | | |



| NUMB | ER OF OBSERVATIONS | | RATUM1 540 | | RATUM2 668 | | RATUM3 686 | HATL EST |
|------|--|-------|---------------|------|-------------------|------|---------------|-------------|
| | ITEHS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | | | | | |
| 7 | SYSTEMS USED FOR CATALOGUING, FILING, INDEXING OCC INFO RESOLE | RCES | | | | | | |
| | OTHER OWN GROUPING SYSTEM | 27 | 5.00 | 34 | 5.09 | 45 | 6.56 | 5.53 |
| | DENEY DECIMAL SYSTEM | 189 | 35.00 | 209 | 31.29 | 195 | 28.43 | 30.70 |
| | D.O.T. NUMBERS | 258 | 47.78 | 327 | 48.95 | 387 | 56.41 | 51.09 |
| | MORK OR MORKER TRAIT GROUPS | 43 | 7.96 | 54 | 8.08 | 71 | 10.35 | 8.76 |
| | ALPHABETIZED D.O.T. SUBJECTS HEADINGS | 108 | 20.00 | 102 | 15.27 | 162 | 23.62 | 18.23 |
| | SRA JOB-FAMILY CLASSIFICATIONS | 126 | 23.33 | 129 | 19.31 | 142 | 20.70 | 20.07 |
| | VOC. INTEREST CATEGORIES | 75 | 13.89 | 73 | 10.93 | 98 | 14.29 | 12.21 |
| | U.S O.E. CATEGORIES | 48 | 8.89 | 50 | 7.49 | 86 | 12.54 | 9.15 |
| | STANDARD INDUSTRIAL CLASSIFICATIONS | 21 | 3.89 | 19 | 2.84 | 27 | 3.94 | 3.27 |
| | U.S. CENSUS CLASSIFICATIONS | 19 | 3.52 | 8 | 1.20 | 18 | 2.62 | 1.84 |
| | OTHER PREPARED SYSTEM | 31 | 5.74 | 34 | 5.09 | 44 | 6.41 | 5.55 |
| | NONE | 16 | 2.96 | 26 | 3.89 | 14 | 2.04 | 3.24 |
| | NOT APPLICABLE | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | DON'T KNON | Ď | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 9 | 1.67 | 11 | 1.65 | 6 | 0.87 | 1.41 |
| 8 | DOES SCHOOL HAVE CENTRAL INDEX TO LOCATE ALL INFO ABOUT A S | PECIF | tc occ | | | | | |
| _ | YES | 184 | 34.07 | 185 | 27.69 | 210 | 30.61 | 29.12 |
| | NO | 345 | 63.89 | 474 | 70. 96 | 470 | 68.51 | 69.51 |
| | NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 11 | 2.04 | 9 | 1.35 | 6 | 0.87 | 1.26 |
| 94 | AMOUNT SPENT (78-79) ON OCC INFO RESOURCES: PUBLICATIONS | | | | | | | |
| | LESS THAN \$300 | 339 | | 469 | 70.21 | 389 | 56.71 | 65.34 |
| | 1 300 - 1 499 | 55 | | 95 | 12.28 | 120 | 17.49 | 13.68 |
| | \$ 500 - \$ 999 | 40 | 7.41 | 29 | 4.34 | 77 | 11.22 | 6.72 |
| | \$1000 - \$2000 | 14 | 2.59 | 11 | 1.65 | 34 | 4.96 | 2.74 |
| | MORE THAN \$2000 | 9 | 1.67 | 6 | 0.90 | 13 | 1.90 | 1.27 |
| | NOT AVAILABLE | 54 | 10.00 | 52 | 7.78 | 33 | | 7.06 |
| | DON'T KNOW | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | NO RESPONSE | 29 | 5.37 | 18 | 2.69 | 20 | 2.92 | 3.00 |
| | | | | | | | | (CONTINUED) |



| NUMB | ER OF OBSERVATIONS | | RATUM1 540 | 57 | RATUMZ 668 | | RATUM3 686 | HATL EST |
|------|---|---|---------------|--------|---------------|-------|---------------|---------------|
| | ITEMS AND ALTERNATIVES | FREG | PERCENT | FRFG | PERCENT | FREQ | PERCENT | PERCENT |
| | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | * **** | | | | |
| 98 | AMOUNT SPENT (78-79) ON DCC INFO RESOURCES: AUDIO-VISUAL | | | | | | | |
| | LESS THAN \$300 | 247 | 45.74 | 350 | 52.40 | 338 | 49.27 | 50.80 |
| | 1 300 - 1 499 | 65 | 12.04 | 92 | 13.77 | 106 | 15.45 | 14.12 |
| | \$ 500 - \$ 999 | 63 | 11.67 | 47 | 7.04 | 73 | 10.64 | 8.54 |
| | \$1000 - \$2000 | 19 | 3.52 | 26 | 3.89 | 31 | 4.52 | 4.05 |
| | MORE THAN \$2000 | 51 | 3.89 | 12 | 1.80 | 20 | 2.92 | 2.32 13.43 |
| | NOT AVAILABLE | 77 | 14.26 | 99 | 14.82 | 72 | 10.50 | |
| | DON'T KNOW | 0 | 0.0 | 1 | 0.15 | | 0.0 | 0.09 6.55 |
| | NO RESPONSE | 48 | 8.89 | 41 | 6.14 | 46 | 6.71 | 0.23 |
| 9C | AMOUNT SPENT (78-79) ON OCC INFO RESOURCES:HICROFICHE | | | | | | | |
| | LESS THAN \$300 | 190 | 35.19 | 289 | 43.26 | 302 | 44.02 | 42.74 |
| | 1 300 - 1 499 | 29 | 5.37 | 29 | 4.34 | 37 | 5.39 | 4.75 |
| | 1 500 - 1 9 9 9 | 14 | 2.59 | 12 | 1.80 | 17 | 2.48 | 2.07 |
| | \$1000 - \$2000 | 9 | 1.67 | 1 | 0.15 | 3 | 0.44 | 0.37 |
| | MORE THAN \$2000 | 1 | 0.19 | 1 | 0.15 | • | 0.58 | 0.29 |
| | NOT AVAILABLE | 206 | 38.15 | 272 | 40.72 | 5 3 6 | 34.40 | 38.51 |
| | DON'T KNOW | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | NO RESPONSE | 91 | 16.85 | 63 | 9.43 | 87 | 12.68 | 11.07 |
| 90 | AMOUNT SPENT (78-79) ON OCC INFO RESOURCES: COMPUTERIZED | INFO SYST | EM | | | | | |
| . • | LESS THAN \$300 | 122 | 22.59 | 178 | 26.65 | 168 | 24.49 | 25.60 |
| | 1 300 - 1 499 | 11 | 2.04 | 17 | 2.54 | 29 | 4.23 | 3.01 |
| | 1 500 - 1 999 | 14 | 2.59 | 12 | 1.80 | 23 | 3.35 | 2.34 |
| | \$1000 - \$2000 | 19 | 3.52 | 30 | 4.49 | 54 | 7.87 | 5.44 |
| | MORE THAN \$2000 | 30 | 5.56 | 12 | 1.80 | 67 | 9.77 | 4.57 |
| | NOT AVAILABLE | 257 | 47.59 | 355 | 53.14 | 266 | 38.78 | 48.19 |
| | DON'T KNOW | 2 | 0.37 | 1 | 0.15 | 0 | 0.0 | 0.12 |
| | NO RESPONSE | 85 | 15.74 | 63 | 9.43 | 79 | 11.52 | 10.62 |
| 98 | AMOUNT SPENT (76-79) ON OCC INFO RESOURCES: SORTING MATER | 7419 | | | | | | |
| 76 | LESS THAN \$300 | 138 | 25.56 | 221 | 33.08 | 218 | 31.78 | 31.99 |
| | \$ 300 - \$ 499 | | 1.48 | 19 | 2.84 | 15 | 2.19 | 2.52 |
| | 1 500 - 1 999 | 3 | 0.56 | 5 | 0.75 | 7 | 1.02 | 0.81 |
| | \$1000 - \$2000 | í | 0.19 | í | 0.15 | i | 0.15 | 0.15 |
| | MORE THAN \$2000 | ō | 0.0 | ō | 0.0 | ž | 0.29 | 0.09 |
| | NOT AVAILABLE | 284 | 52.59 | 344 | \$1.50 | 330 | 48.10 | 50.50 |
| | DON'T KNOH | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 106 | 19.63 | 78 | 11.68 | 113 | 16.47 | 13.84 |
| | | - 3- | - · · · · · | , • | | | | |

ERIC (41)

| MARBER OF OBSERVATIONS | | STRATUM) 540 | | STRATUMS 668 | | STRATUMS 684 | | NATE EST |
|------------------------|--|-----------------|---------|-----------------|---------|-----------------|---------|----------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 9F | AMOUNT SPENT (78-79) ON OTHER OCC INFO RESOURCES | | | | | 31 | 4.52 | 3,56 |
| | LESS THAN \$300 | 17 | 3.15 | 5.1 | 3.14 | 31 A | 1.17 | 0.57 |
| | \$ 300 - \$ 499 | 2 | 0.37 | 2 | 0.30 | 7 | 1.02 | 0.54 |
| | \$ 500 - \$ 999 | 3 | 0.56 | 5 | 0.30 | <u>′</u> | 0.44 | 0.36 |
| | \$1000 - \$2000 | 3 | 0.56 | 2 | 0 30 | | 0.58 | 0.32 |
| | MORE THAN \$2000 | 3 | 0.56 | 1 | 0.15 | 4 | | 11.66 |
| | NOT AVAILABLE | 79 | 14.63 | 84 | 12.57 | 65 | 9.04 | 0.04 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | |
| | NO RESPONSE | 433 | 80.19 | 556 | 83.23 | 570 | 83.09 | 82.84 |
| 10 | GUIDES/INDEXES AVAILABLE AT SCHOOL TO ORDER/SELECT GUI | DANCE MATER | IALS | | | | | |
| | CAREER GUIDANCE INDEX | 247 | 45 74 | 291 | | 352 | 51.31 | 46.09 |
| 10 | CAREER INDEX | 265 | 49.07 | 308 | 46.11 | 427 | 62.24 | 51.28 |
| | COUNSELOR'S INFORMATION SERVICE | 74 | 13.70 | 70 | 10.48 | 109 | 15.89 | 12.41 |
| | CURRENT CAREER AND OCCCUPATIONAL LIT. | 58 | 10.74 | 44 | 6 59 | 52 | 7.58 | 7.25 |
| | EDUCATOR'S GUIDE TO FREE GUIDANCE MATERIALS | 253 | 46.85 | 332 | 49.70 | 357 | 52.04 | 50.12 |
| | SUIDANCE EXCHANGE | 12 | 2.22 | 11 | 1.65 | 16 | 2.33 | 1.91 |
| | GUIDE TO INDEXES AS A RESOURCE | 31 | 5.74 | 33 | 4.94 | 38 | 5.54 | 5.19 |
| | GUIDE TO LOCAL OCCUPATIONAL INFO | 162 | 30.00 | 170 | 25.45 | 224 | 32.65 | 28.04 |
| | INDEX TO VOC/TECH EDUC. | 56 | 10.37 | 69 | 10.33 | 7 7 | 11.22 | 10.60 |
| | INFORM | 138 | 25.56 | 139 | 20.81 | 196 | 28.57 | 23.59 |
| | JOURNAL OF COLLEGE PLACEMENT | 40 | 7.41 | 47 | 7.04 | 39 | 5.69 | 6.65 |
| | NVGA BIBLIOGRAPHY | 29 | 5.37 | 14 | 2.10 | 38 | 5.54 | 3.44 |
| | VOCATIONAL GUIDANCE QUARTERLY | 150 | 27.78 | 166 | 24.85 | 225 | 32.80 | 27.52 |
| | INDEXES FROM EXTERNAL SOURCES | 123 | 22.78 | 112 | 16.77 | 146 | 21.28 | 18.67 |
| | PUBLISHER'S CATALOGS | 369 | 68.33 | 431 | 64.52 | 478 | 69.68 | 66.38 |
| | OTHER | 59 | 10.93 | 67 | 10.03 | 85 | 12.39 | 10.82 |
| | | 28 | | 24 | 3,59 | 18 | 2.62 | 3.43 |
| | NOME MOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | ······ | ŏ | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | DON'T KHOW NO RESPONSE | 9 | 1.67 | 18 | 2.69 | 11 | 1.60 | 2.27 |



| HUMBE | R OF OBSERVATIONS | _ | RATUM1 540 | | RATUME 468 | _ | RATUM3 686 | HATL EST |
|-------|---|-----------|----------------|-----------|----------------|----------|----------------|----------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 334 | APP TIPE SPECIFICAL IN SPINS LEGISLA | • | | | | | | |
| IIA | OCC INFO RESOURCES AT SCHOOL: BOUND REFERENCES | | | | | | | |
| | Al OCCUPATIONAL DUTLOOK HANDBOOK AS DICTIONARY OF OCCUP. TITLES | 508 | 94.07 | 599 | 89.67 | 667 | 97.23 | 92.29 |
| | A3 GUIDE FOR OCCUP. EXPLORATION | 477 | 88.33 | 523 | 78.29 | 624 | 90.96 | 82.99 |
| | A4 ENCTCL. OF CAREERS AND VOC. GUIDANCE | 72 | 13.33 | 69 | 10.33 | 75 | 10.93 | 10.77 |
| | AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG W | 272 | 50.37 | 262 | 39.22 | 390 | 56.85 | 45.58 |
| | A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 139 74 | 25 74 13.70 | 127 | 19.01 7.34 | 205 | 29.88 14.14 | 22.92 |
| | A7 THE NATIONAL APPRENTICESHIP PROGRAM | 84 | | 49 | 7,34 10,18 | 97 | | 9.98 |
| | AB OCCUP. HANDBOOKS FOR THE MILITARY | 393 | 15.56 72.78 | 68 | 10.18 72.90 | 135 | 19.68 79.59 | 13.56 74.87 |
| | A9 WORKER TRAIT GROUP GUIDE | 343 46 | 72.76 8.52 | 487 39 | 72.90 5.84 | 546 | 12.97 | 74.07 8.26 |
| | A10 OTHER (BOUND REFERENCES) | 59 | 10.93 | 61 | 9.13 | 89 80 | 11.66 | 10.06 |
| | NO RESPONSE | 12 | 2.22 | 21 | 7.13 3.14 | 5 | 0.73 | 2.32 |
| | 1120.0.01 | 16 | | 6.4 | 7.44 | , | 0.73 | £.3£ |
| 118 | OCC INFO RESOURCES AT SCHOOL: OCCUPATIONAL BRIEFS AND KITS | | | | | | | |
| | B1 B'NAI B'RITH BRIEFS | 30 | 5.56 | 21 | 3.14 | 36 | 5.25 | 4.00 |
| | B2 CAREERS, INC. | 186 | 34.44 | 170 | 25.45 | 277 | 40.38 | 30.80 |
| | B3 CATALYST PAMPHLETS | 11 | 2.04 | 8 | 1.20 | 30 | 4.37 | 2.25 |
| | 84 CHRONICLE GUIDANCE | 251 | 46.48 | 282 | 42.22 | 394 | 57.43 | 47.22 |
| | BS SRA BRIEFS | 254 | 47.04 | 246 | 36.83 | 315 | 45.92 | 40.48 |
| | 86 OCCUP. GUIDANCE BRIEFS | 63 | 11 67 | 70 | 10.48 | 102 | 14.87 | 11.92 |
| | B7 GUIDANCE CENTRE MONOGRAPHS | 30 | 5.56 | 28 | 4.19 | 32 | 4.66 | 4.45 |
| | BB JOB FACT SHEETS | 39 | 7.22 | 48 | 7.19 | 38 | 5.54 | 6.68 |
| | B9 VOCATIONAL BIOGRAPHIES | 99 | 18.33 | 120 | 17.96 | 178 | 25.95 | 20.43 |
| | BIO OCCUP. BRIEFS PUBLISHED BY STATE | 205 | 37.96 | 256 | 38.32 | 308 | 44.90 | 40.27 |
| | BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 297 | 55.00 | 325 | 48.65 | 426 | 62.10 | 53.29 |
| | BIZ PAMPHLETS PREPARED BY PRIVATE BUSINESS | 276 | 51,11 | 287 | 42.96 | 396 | 57.73 | 48.17 |
| | B13 HRITE-UPS BY FORMER STUDENTS | 20 | 3.70 | 21 | 3.14 | 24 | 3.50 | 3.30 |
| | B14 OTHER (OCCUP. BRIEFS AND KITS) | 55 | 10.19 | 69 | 10.33 | 97 | 14.14 | 11.48 |
| | NO RESPONSE | 48 | 8.89 | 65 | 9.73 | 43 | 6.27 | 8.58 |
| 110 | OCC INFO RESOURCES AT SCHOOL:PERIODICALS | | | | | | | |
| | C1 CAREER WORLD | 261 | 48.33 | 256 | 38.32 | 361 | 52.62 | 43.56 |
| | CZ OCCUP. IN DEMAND | 51 | 9.44 | 63 | 9.43 | 73 | 10.64 | 9.79 |
| | C3 OCCUP. OUTLOOK QUARTERLY | 300 | 55.56 | 321 | 48.05 | 425 | 61.95 | 52.93 |
| | C4 REAL MORLD | 121 | 22.41 | 158 | 23.65 | 177 | 25.80 | 24.18 |
| | C5 CIVIL SERVICE EXAM BULLETINS | 162 | 30.00 | 195 | 29.19 | 268 | 39.07 | 32.27 |
| | C6 OTHER (PERIODICALS) | 34 | 6.30 | 47 | 7.04 | 63 | 9.18 | 7.62 |
| | NO RESPONSE | 97 | 17.96 | 160 | 23.95 | 105 | 15.31 | 20.75 |



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| HJYSI | ER OF COSERVATIONS | • • • | RATUM) 540 | | RATUME 668 | • | RATUMS 606 | MATE EST |
|-------|--|------------|---------------|------|---------------|-----------|---------------------|---------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 110 | OCC INFO RESOURCES AT SCHOOL:BOOK SERIES ON INDIVIDUAL O | CCUPATION | 13 | | | | | |
| | D1 OPPURTUNITIES IN | 84 | 15.56 | 78 | 11.68 | 139 | 20.26 | 14.44 |
| | DE YOUR CAREER IN | 130 | 24.07 | 121 | 18.11 | 176 | 25.66 | 20.94 |
| | D3 YOUR FUTURE IN | 172 | 31.65 | 131 | 19.61 | 248 | 36 . 15 | 25.75 |
| | D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 37 | 4.85 | 38 | 5.49 | 38 | 5.54 | 5.74 |
| | NO RESPONSE | 306 | 56.67 | 449 | 67.22 | 352 | 51.31 | 61.34 |
| 11€ | OCC INFO RESOURCES AT SCHOOL:LIST OF EMPLOYERS | | | | | | | |
| | EL DIRECTORLES OF BUSINESSES | 183 | 33.89 | 161 | 24.10 | 247 | 36.01 | 20.59 |
| | EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 275 | 50.93 | 189 | 28.29 | 337 | 49.13 | 34.45 |
| | E3 OTHER (LIST OF EMPLOYERS) | 33 | 6.11 | 2.9 | 4.34 | 34 | 4.94 | 4.48 |
| | NO RESPONSE | 199 | 36 . 85 | 380 | 56.89 | 543 | 35.42 | 46.48 |
| 11# | OCC INFO RESOURCES AT SCHOOL:EDUCATIONAL DIRECTORIES FOR | P OCCUPATI | ONS. | | | | | |
| | FI COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 371 | 68.70 | | 67.37 | \$23 | 76.24 | 70.14 |
| | FE VOCATIONAL SCHOOL DIRECTORIES | 408 | 75.56 | 464 | 69.46 | 572 | 83.38 | 74.20 |
| | F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF | 29 | 5.37 | \$1 | 3.14 | 56 | 3.79 | 3.53 |
| | FA OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 39 | 7.22 | 77 | 11.53 | 74 | 10.79 | 10.91 |
| | NO RESPONSE | 80 | 14.81 | 114 | 17.07 | 55 | 8.02 | 14.07 |
| 116 | OCC INFO RESOURCES AT SCHOOL: COMPUTERIZED INFORMATION S | | | | | _ | | |
| | ET CHOICES | • | 0.0 | 2 | 0.30 | . 0 | 0.0 | 0.18 |
| | es coim | 17 | 3.15 | 1 | 0.15 | 15 | 2.19 | 1.04 |
| | 63 CV13 | 18 | 3.33 | 7 | 1.05 | 22 | 3.21 | 1.91 |
| | 64 DISCOVER | 10 | 1.85 | 1 | 0.15 | | 0.87 | 0.52 11.16 |
| | 65 GIS | 73 | 13.52 | 42 | | 138 | 20.12 15.01 | 11.74 |
| | 66 YOUR STATE SYSTEM | 38 | 7.04 | 72 | 10.78 | 103 | 3.94 | 1,76 |
| | 67 YOUR SCHOOL OR COUNTY SYSTEM | 17 | 3.15 | 3 | 0.45 | 27 | 1.90 | 1.37 |
| | GO OTHER (COMPUTERIZED INFO. SYSTEMS) | 15 | 2.78 | 6 | 0,90 83,53 | 13 424 | 61.81 | 75.77 |
| | NO RESPONSE | 389 | 72.04 | 558 | 03.33 | 767 | 91.01 | 19.11 |
| 11M | OCC INFO RESOURCES AT SCHOOL:A-V HATERIALS | | | | | 148 | | 19.78 |
| | HI YOUR OWN SCHOOL MADE A-V EQUIP. | 164 | 30.37 | 109 | 16.32 | 165 | 23.62 | |
| | HE EXTERNALLY PRODUCED A-V EQUIP. | 402 | 74.44 | 456 | 68.26 | 521 | 75 . 9 5 | 71.10 |
| | H3 OTHER (AUDIO-VISUAL) | 2.5 | 4.07 | 23 | 3.44 | 92 | 3.79 | 3.60 |
| | NO RESPONSE | 109 | 20.19 | 180 | 26.95 | 143 | 20.85 | 24.45 |
| 111 | C OCC INFO RESOURCES AT SCHOOL:MICROFORMS | | | | | | 39.50 | 39, 99 |
| | 11 STATE OR REGIONAL MICROFILM | 195 | 36.11 | 273 | | 271 | 37.30 7.87 | 6.53 |
| | IS FOCAT MICKLAITH | 64 | 11.85 | 34 | 5.09 | 54 | 7.07 4.96 | 0.33 3.74 |
| | 13 OTHER (MICROFORMS) | 25 | 4.63 | 20 | 2.99 | 34 | | 3.79 55.63 |
| | NO RESPONSE | 306 | 56.67 | 376 | 56.29 | 372 | 54.23 | 23.63 |

ERIC Full Text Provided by ERIC

| HUTBE | ER OF COSERVATIONS | 31 | WATURI 540 | | 847UM2 668 | | PATUM3 | HATL EST |
|-------|--|------------|----------------|------------|----------------|------------|---------------|-----------------|
| | ITEMS AND ALTERNATIVES | 7959 | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 11, | OCC INFO RESOURCES AT SCHOOL: NON COMPUTERIZED SORTING | | | | | | | |
| | JE KEY OR HEEDLESORT | 52 | 9.63 | 116 | 17.37 | 114 | 16.91 | 16.53 |
| | JE SCORE INTERP GUIDES FOR INVENTORIES | 87 | 16.11 | | 19.76 | 176 | 25.44 | 21.23 |
| | J3 OTHER (HON-COMPUTER SORVING MATERIALS) NO RESPONSE | 11 | 2.04 76.67 | 18 | 2.69 66.67 | 30 428 | 4.37 62.39 | 3, 15 66, 85 |
| | NV RESPONSE | *** | ,,,,, | *** | | *** | | |
| 11K | OCC INFO RESOURCES AT SCHOOL: SCHOOL ARRANGED EXPERIENCES | | | | 38.17 | 700 | 44.02 | 40.87 |
| | K1 COURSES IN CAREER PLANNING | 216 349 | 40.00 64.63 | 255 401 | **** | 302 458 | 44.76 | 62.44 |
| | KE OCCUP, INFO, UNITS IN SUBJECT MATTER CLASSES | 405 | 75.00 | 329 | | 483 | 70.41 | 57.96 |
| | K3 EXPLORATORY WORK EXPERIENCE | 405 | 78.89 | 493 | | 531 | 77.41 | 75.28 |
| | KA CAREER DAYS, SPEAKERS, ETC. KS CAREER CLUBS | 209 | 38.70 | 120 | | 157 | 22.69 | 21.28 |
| | KS CAREER CLOUDS KS VOLUNTEER SERVICE ARRANGED BY SCHOOL | 188 | 34.81 | | 13.32 | 198 | 28.86 | 19.97 |
| | K7 JOB SITE TOURS | 382 | 70.74 | 372 | 55.69 | 430 | 62.68 | 59.10 |
| | KB JOB SHADOWING | 126 | | 74 | | 172 | 25.07 | 16.44 |
| | K9 CONFERENCES WITH COMMUNITY REPS | 291 | | 242 | 36.23 | 295 | 43.00 | 39.83 |
| | KID OTHER (SCHOOL ARRANGED EXPERIENCES) | 49 | | 50 | 7.49 | 82 | 11.95 | 8.99 |
| | HO RESPONSE | 19 | 3.52 | 42 | 6.29 | 19 | 2.77 | 4.96 |
| | MAR THE MERIMPER AT ARHARI (STM) ATTAM | | | | | | | |
| *11 | DCC INFO RESOURCES AT SCHOOL:SIMULATIONS L1 SIMULATIONS | 118 | 21.85 | 112 | 16.77 | 134 | 19.53 | 10.05 |
| | NO RESPONSE | 422 | 78.15 | 556 | 83.23 | 552 | 80.47 | 81.85 |
| | | | | | | | | |
| 11M | DCC INFO RESOURCES AT SCHOOL: PERSONAL CONTACT WITH SCHOOL | | | 540 | 82.84 | 597 | 87.03 | 83.22 |
| | M1 CONFERENCES WITH COUNSELORS | 471 | 87.22 | 238 | 35.63 | 388 | 56.56 | 44.51 |
| | ME ASSISTANCE FROM OTHER STAFF | 345 | 63.89 10.93 | 114 | 33.03 17.07 | 69 | 10.06 | 14.36 |
| | NO RESPONSE | 59 | 10.73 | 114 | 17.07 | 97 | 10.00 | 24.30 |
| 12A | RESOURCE USED FOR QUES RE ENTRY REQUIREMENTS OF VARIOUS | | NS CHARLES | | | | | |
| | Al OCCUPATIONAL OUTLOOK HANDBOOK | 212 | 39.26 | 247 | 36 . 98 | 296 | 43.15 | 39.03 |
| | AS DICTIONARY OF OCCUP. TITLES | 48 | 8.89 | 47 | 6.44 | 46 | 6.71 | 6.73 |
| | A3 GUIDE FOR OCCUP. EXPLORATION | 2 | | | 0.30 | 1 | 0.15 | 0.26 3.10 |
| | A4 ENCYCL. OF CAREERS AND VOC. BUIDANCE | 24 | | 5.5 | | 16 | 2.33 | |
| | AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG | | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | AS EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | | 0 | 0.0 | 0 | 0.0 0.29 | 0.0 0.29 |
| | AT THE NATIONAL APPRENTICESHIP PROGRAM | 1 | | 5 | | 2 | | 0.27 |
| | AS OCCUP. HANDBOOKS FOR THE MILITARY | 0 | 0.0 | 1 | | 0 | 0.0 | 0.09 |
| | A9 MORKER TRAIT GROUP GUIDE | 1 | | 0 | | 1 | 0.15 0.58 | 0.06 0.84 |
| | Ald OTHER (BOUND REFERENCES) | 2 | | 7 | | 0 | 0.0 | 0.02 |
| | B1 B'NAI B'RITH BRIEFS | 1 | | 0 7 | 0.0 | 13 | V.V 1.90 | 1.35 |
| | BE CAREERS, INC. | 8 | 1.48 | , | 1.05 0.0 | 13 | 0.0 | 0.0 |
| | B3 CATALYST PAMPHILETS | 0 | 0.0 | Ū | 9. 0 | v | v. v | *.* |
| | 408 | | | | | | (1 | (GBUNITNO |
| | - | | | | | | | . ^ |

| LYBER OF CRSERVATIONS | | STRATUM1 540 | | STRATUM2 668 | | STRATUM3 686 | |
|---|-----------|-----------------|------|------------------|------|-----------------|--------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 12A RESOURCE USED FOR QUES RE ENTRY REQUIREMENTS OF VARIOUS | OCCUPATIO | NS | | | | | |
| B4 CHRONICLE GUIDANCE | 19 | 3.52 | 88 | 4.19 | 40 | 5.83 | 4.63 |
| BS SRA BRIEFS | 14 | 2.59 | 19 | 2.84 | 13 | 1.90 | 2.53 |
| B& OCCUP, GUIDANCE BRIEFS | 3 | 0.56 | 6 | 0. 90 | 6 | 0.87 | 0.86 |
| B7 GUIDANCE CENTRE HONOGRAPHS | 0 | 0.0 | 2 | 0.30 | 0 | 0.0 | 0.18 |
| BA JOB FACT SHEETS | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| B9 VOCATIONAL BIOGRAPHIES | 1 | 0.19 | 3 | 0.45 | 4 | 0.58 | 0.47 |
| BIO OCCUP. BRIEFS PUBLISHED BY STATE | 6 | 1.11 | 16 | 2.40 | 4 | 0.58 | 1.72 |
| BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 1 | 0.19 | 5 | 0.75 | 2 | 0.29 | 0.56 |
| BIZ PAMPHLETS PREPARED BY PRIVATE BUSINESS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| BIS WRITE-UPS BY FORMER STUDENTS | | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| BIA OTHER (OCCUP. BRIEFS AND KITS) | 3 | 0.56 | 4 | 0.60 | 3 | 0.44 | 0.54 |
| C1 CAREER MORLD | Ď | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| C2 OCCUP. IN DEMAND | ŏ | 0.0 | ō | 0.0 | ō | 0.0 | 0.0 |
| C3 OCCUP. OUTLOOK QUARTERLY | ī | 0.19 | ě | 0.0 | ī | 0.15 | 0.06 |
| | | 0.0 | ĭ | 0.15 | ō | 0.0 | 0.09 |
| C4 REAL MORLD | | 0.0 | ż | 0.30 | ī | 0.15 | 0.23 |
| CS CIVIL SERVICE EXAM BULLETINS | Ţ | 0.19 | | 0.0 | | 0.29 | 0.11 |
| C6 OTHER (PERIODICALS) | 1 | 0.17 | 1 | 0.15 | 2 | 0.29 | 0.18 |
| DI OPPURTUNITIES IN | 1 | 0.19 | | 0.15 | 1 | 0.15 | 0.06 |
| DE YOUR CAREER IN | 1 | | 0 | 0.0 | | 0.0 | 0.0 |
| D3 YOUR FUTURE IN | 0 | 0.0 | 0 | | • | 0.0 | 0.0 |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | - | 0.0 | - | 0.0 | 4 | 0.58 | 0.48 |
| EL DIRECTORIES OF BUSINESSES | 2 | 0.37 | 3 | 0.45 | • | 0.50 | 0.45 |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | Ş | • • • | 0 | 0.0 | 0 | 0.0 | 0.03 |
| E3 OTHER (LIST OF EMPLOYERS) | 0 | 0.0 | 0 | 0.0 | • | | 1.33 |
| FI COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 7 | 1.30 | 9 | 1.35 | 9 | 1.31 | 1.33 0.98 |
| FZ VOCATIONAL SCHOOL DIRECTORIES | 5 | 0.93 | 5 | 0.75 | 10 | 1.46 | |
| F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| FA OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 1 | 0.19 | 4 | 0.60 | S | 0.29 | 0.47 |
| G1 CHOICES | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| 62 COIN | 9 | 1.67 | 5 | 0.75 | 10 | 1.46 | 1.05 |
| 63 CVIS | 2 | 0.37 | 1 | 0.15 | 5 | 0.29 | 0.21 |
| 64 DISCOVER | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| 65 613 | 5.3 | 4.26 | 11 | 1.65 | 36 | 5.25 | 2.98 |
| 66 YOUR STATE SYSTEM | 8 | 1.48 | 28 | 4.19 | 40 | 5.83 | 4.45 |
| 67 YOUR SCHOOL OR COUNTY SYSTEM | 3 | 0.56 | 1 | 0.15 | 3 | 0.44 | 0.27 |
| GO OTHER (COMPUTERIZED INFO. SYSTEMS) | 3 | 0.56 | 1 | 0.15 | 5 | 0.29 | 0.23 |
| HI YOUR OWN SCHOOL MADE A-V EQUIP. | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| H2 EXTERNALLY PRODUCED A-V EQUIP. | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| H3 OTHER (AUDIO-VISUAL) | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |

(CONTINUED)



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| MAMBER OF OBSERVATIONS | STRATUMI 540 | | STRATUME 568 | | STRATUMS 484 | | NATL EST |
|---|-----------------|---------|-----------------|---------|-----------------|---------|----------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEH CONTINUED) | | | | | | | |
| 12A RESOURCE USED FOR QUES RE ENTRY REQUIREMENTS OF VARIOUS | OCCUPATIO | MS | | | | | |
| II STATE OR REGIONAL MICROFILM | 21 | 3.89 | 48 | 6.29 | 39 | 5.69 | 3.49 |
| IZ LOCAL MICROFILM | • | 0.74 | 0 | 0.0 | 0 | 0.0 | 0.07 |
| IS OTHER (MICROFORMS) | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 9.02 |
| J1 KEY OR HEEDLESORT | 2 | 0.37 | 11 | 1.65 | 1 | 0.15 | 1.07 |
| JE SCORE INTERP GUIDES FOR INVENTORIES | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 0 | 0.0 | 2 | 0.30 | 0 | 0.0 | 0.18 |
| K1 COURSES IN CAREER PLANNING | 0 | 0.0 | 0 | 0.0 | \$ | 0.29 | 0.09 |
| KE OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 2 | 0.37 | 1 | 0.15 | 1 | 0.15 | 0.17 |
| K3 EXPLORATORY MORK EXPERIENCE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K4 CAREER DAYS, SPEAKERS, ETC. | 2 | 0.37 | 2 | 0.30 | 1 | 0.15 | 0.26 |
| K5 CAREER CLUBS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.6 |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K7 JOB SITE TOURS | 1 | 6.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| KA JOB SHADOWING | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| K9 CONFERENCES WITH COMPLINITY REPS | 5 | 0.93 | 4 | 0.60 | 2 | 0.29 | 0.53 |
| KIO OTHER (SCHOOL ARRANGED EXPERIENCES) | 1 | 0.19 | ž | 0.30 | 0 | 0.0 | 0.20 |
| L1 SIMULATIONS | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| MI CONFERENCES WITH COUNSELORS | 1 | 0.19 | 5 | 0.75 | 3 | 0.44 | 0.60 |
| ME ASSISTANCE FROM OTHER STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| A99 BOUND REFERENCES | 1 | 0.19 | 0 | 0.0 | 2 | 0.29 | 0.11 |
| 899 OCCUPATIONAL BRIEFS AND KITS | 2 | 0.37 | 2 | 0.30 | 0 | 0.0 | 0.21 |
| C99 PERIODICALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| D99 SERIES OF BOOKS ON INDIV. OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| H99 AUDIO-VISUAL MATERIALS | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| 199 MICROFORMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| J99 HON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| L99 SIMULATIONS | ŏ | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | ō | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NA NOT APPLICABLE | 14 | 2.59 | 11 | 1.65 | 7 | 1.02 | 1.54 |
| DK DON'T KNOM | 18 | 3.33 | 20 | 2,99 | 6 | 0.87 | 2.37 |
| NO RESPONSE | 45 | 8.33 | 74 | 11.08 | 41 | 5.98 | 9.26 |
| THE RESPONSE | | | | | | | |



| NUMBER OF OBSERVATIONS | | RATUH1 540 | STRATUM2 568 | | STRATUMS 686 | | NATL EST | |
|--|---------|---------------|-----------------|---------|-----------------|---------|----------|--|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT | |
| 128 RESOURCE USED FOR QUES RE EMPLOYMENT OUTLOOK IN VARIOUS OF | CUPATIO | MS . | | | | | | |
| AL OCCUPATIONAL OUTLOOK HANDBOOK | 300 | 55.56 | 359 | 53.74 | 400 | 58.31 | 55.25 | |
| AZ DICTIONARY OF OCCUP. TITLES | 10 | 1.85 | 9 | 1.35 | 5 | 0.73 | 1.20 | |
| A3 GUIDE FOR OCCUP. EXPLORATION | 5 | 0.93 | 2 | 0.30 | 1 | 0.15 | 0.31 | |
| A4 ENCYCL. OF CAREERS AND VOC. GUIDANCE | 7 | 1.30 | 8 | 1.20 | • | 0.58 | 1.02 | |
| AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG I | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | \$0.0 | |
| AS EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | 0.0 | Ò | 0.0 | ٥ | 0.0 | 0.0 | |
| A7 THE NATIONAL APPRENTICESHIP PROGRAM | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| AS OCCUP. HAMDSOOKS FOR THE MILITARY | 0 | 0.0 | 2 | 0.30 | 2 | 0.29 | 0.27 | |
| A9 WORKER TRAIT GROUP GUIDE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| Ald OTHER (BOUND REFERENCES) | 2 | 0.37 | 8 | 1.20 | 8 | 1.17 | 1.11 | |
| B1 B'NAI B'RITH BRIEFS | 2 | 0.37 | 0 | 0.0 | 0 | 0.0 | 0.03 | |
| B2 CAREERS, INC. | 2 | 0.37 | 2 | 0.30 | 5 | 0.73 | 0.44 | |
| B3 CATALTST PAMPHLETS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| BA CHRONICLE GUIDANCE | 2 | 0.37 | 10 | 1.50 | 8 | 1.17 | 1.29 | |
| B5 SRA BRIEFS | 3 | 0.56 | 3 | 0.45 | 0 | 0.0 | 0.32 | |
| B6 OCCUP. GUIDANCE BRIEFS | 0 | 0.0 | 2 | 3.30 | 4 | 0.58 | 0.36 | |
| 37 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| BB JOB FACT SHEETS | 1 | 0.19 | 3 | 0.45 | 0 | 0.0 | 0.29 | |
| B9 VOCATIONAL BIOGRAPHIES | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 | |
| Blo OCCUP. BRIEFS PUBLISHED BY STATE | 11 | 2.04 | 18 | 2.69 | 16 | 2.33 | 2.52 | |
| BII PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 0 | | 0 | 0.0 | Z | 0.29 | 0.09 | |
| B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | - | 0.0 | 0 | 0.0 | 0 | 0.0 | Ō.O | |
| B13 MRITE-UPS BY FORMER STUDENTS | 0 | | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| B14 OTHER (OCCUP. BRIEFS AND KITS) | 3 | 0.56 | 3 | 0.45 | Z | 0.29 | 0.41 | |
| C1 CAREER WORLD | 5 | | 4 | 0.60 | 3 | 0.44 | 0.53 | |
| CZ OCCUP. IN DEMAND | 9 | | 10 | | 8 | 1.17 | 1.41 | |
| C3 OCCUP. OUTLOOK QUARTERLY | 39 | 7.22 | 34 | 5.09 | 42 | 6.12 | 5.59 | |
| C4 REAL WORLD | 0 | | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| C5 CIVIL SERVICE EXAM BULLETINS | 0 | | 0 | 0.0 | 1 | 0.15 | 0.04 | |
| C6 OTHER (PERIODICALS) | 4 | 0.74 | 8 | 1.20 | 3 | 0.44 | 0.92 | |
| D1 OPPURTUNITIES IN | 2 | 0.37 | 0 | | 0 | 0.0 | 0.03 | |
| D2 TOUR CAREER IN | 0 | 0.0 | ٥ | | 0 | 0.0 | 0.0 | |
| D3 YOUR FUTURE IN | 0 | 0.0 | û | 0.0 | 0 | 0.0 | 0.0 | |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | _ | 0.0 | Ş | | 0 | 0.0 | 0.18 | |
| El DIRECTORIES OF BUSINESSES | 4 | | S | | 3 | 0.44 | 0.38 | |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | _ | 0.19 | 0 | | 0 | 0.0 | 0.02 | |
| E3 OTHER (LIST OF EMPLOYERS) | _ | 0.19 | | 0.30 | 1 | 0.15 | 0.24 | |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | _ | 0.0 | 0 | | 0 | 0.0 | 0.0 | |
| F2 VOCATIONAL SCHOOL DIRECTORIES | - | 0.0 | 5 | | 1 | 0.15 | 0.23 | |
| F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF | 0 | * | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 | |



| HUMBE | R OF OBSERVATIONS | | RATUM1 540 | _ | RATUMZ 668 | \$1 | RATUMS 686 | HATL EST |
|-------|---|-----------|---------------|------|---------------|------|---------------|----------|
| | ITEMS AND ALTERNATIVES | 5950 | PERCENT | 5050 | PERCENT | 2020 | PERCENT | PERCENT |
| , | ALIERMAIATES | . HEW | FERCENI | rnew | PERCENT | FREW | reacen: | renteni |
| | (ITEM CONTINUED) | | | | | | | |
| 128 | RESOURCE USED FOR QUES RE EMPLOYMENT OUTLOOK IN VARIOUS | OCCUPATIO | NS | | | | | |
| | G1 CHOICES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | es coin | 5 | 0.93 | 1 | 0.15 | • | 0.58 | 0.35 |
| | 63 CVIS | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| | 64 DISCOVER | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | 65 GIS | 17 | 3.15 | 9 | 1.35 | 35 | 5.10 | 2.66 |
| | G6 YOUR STATE SYSTEM | 9 | 1.67 | 24 | 3.59 | 35 | 5.10 | 3.88 |
| | G7 YOUR SCHOOL OR COUNTY SYSTEM | 2 | 0.37 | 0 | 0.0 | 1 | 0.15 | 0.08 |
| | G8 OTHER (COMPUTERIZED INFO. SYSTEMS) | 2 | 0.37 | 2 | 0.30 | 1 | 0.15 | 0.26 |
| | H1 YOUR OWN SCHOOL HADE A-V EQUIP. | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | HZ EXTERNALLY PRODUCED A-V EQUIP. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | H3 OTHER (AUDID-VISUAL) | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | IL STATE OR REGIONAL MICROFILM | 13 | 2.41 | 19 | 2.84 | 23 | 3.35 | 2.96 |
| | IZ LOCAL MICROFILM | 2 | 0.37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| | I3 OTHER (MICROFORMS) | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | J1 KEY OR NEEDLESORT | 0 | 0.0 | 8 | 1.20 | 1 | 0.15 | 0.77 |
| | JE SCORE INTERP GUIDES FOR INVENTORIES | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 1 | 0 19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| | K1 COURSES IN CAREER PLANNING | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | KZ OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| | K3 EXPLORATORY WORK EXPERIENCE | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | K4 CAREER DAYS, SPEAKERS, ETC. | 1 | 0.19 | 3 | 0.45 | 2 | 0.29 | 0.38 |
| | KS CAPEER CLUBS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | K7 JOB SITE TOURS | 0 | 0.0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| | K8 JOB SHADOWING | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | K9 CONFERENCES WITH COMMUNITY REPS | 1 | 0.19 | ž | 0.30 | 1 | 0.15 | 0.24 |
| | KIO OTHER (SCHOOL ARRANGED EXPERIENCES) | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | L1 SIMULATIONS | 1 | 0.19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| | M1 CONFERENCES WITH COUNSELORS | 0 | 0.0 | 3 | 0 45 | 2 | 0.29 | 0.36 |
| | M2 ASSISTANCE FROM OTHER STAFF | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | A99 BOUND REFERENCES | 2 | 0.37 | 0 | 0.0 | 1 | 0.15 | 0.08 |
| | B99 OCCUPATIONAL BRIEFS AND KITS | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| | C99 PERIODICALS | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| | D99 SERIES OF BOOKS ON INDIV. DCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | ۵.٥ ک | 0 | 0.0 | 0.0 |
| | F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | H99 AUDIO-VISUAL MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | I99 MICROFORMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |

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| NUMBER OF OBSERVATIONS | | RATUM1 540 | - | RATUM2 668 | | RATUM3 686 | NATL EST |
|---|------------|---------------|------|---------------|------|---------------|--------------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 128 RESOURCE USED FOR QUES RE EMPLOYMENT OUTLOOK IN VARIOUS | OCCUPATION | NA. | | | | | |
| JOS NON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 9.02 |
| L99 SIMULATIONS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NA NOT APPLICABLE | 11 | 2.04 | 11 | 1.65 | 9 | 1.31 | 1.58 |
| DK DON'T KNOW | 16 | 2.96 | 19 | 2.84 | 7 | 1.02 | 2.29 |
| NO RESPONSE | 38 | 7.04 | 66 | 9.88 | 39 | 5.69 | 8.33 |
| 1120.012 | | | | | | | |
| 12C RESOURCE USED FOR QUES RE SPEC APTITUDE/ABILITY/SKILL F | OR VARIOUS | OCC | | | | | |
| A) OCCUPATIONAL OUTLOOK MANDBOOK | 144 | 26.67 | 155 | 23.20 | 172 | 25.07 | 24.05 |
| AS DICTIONARY OF OCCUP, TITLES | 59 | 10.93 | 66 | 9.88 | 81 | 11.81 | 10.55 |
| A3 GUIDE FOR OCCUP. EXPLOPATION | 8 | 1.48 | 2 | 0.30 | 1 | 0.15 | 0.36 |
| A4 ENCYCL. OF CAREERS AND VOC. GUIDANCE | 32 | 5.93 | 16 | 2.40 | 26 | 3.79 | 3.13 |
| AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUN | GH 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| AS EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| AT THE NATIONAL APPRENTICESHIP PROGRAM | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| AB OCCUP, HANDBOOKS FOR THE MILITARY | 0 | 0.0 | 4 | 0.60 | 3 | 0.44 | 0.50 |
| A9 MORKER TRAIT GROUP GUIDE | 9 | 1.67 | 7 | 1.05 | 9 | 1.31 | 1.18 |
| A10 OTHER (BOUND REFERENCES) | 1 | 0.19 | 7 | 1.05 | 6 | 0.87 | 0.92 |
| BI B'NAI B'RITH BRIEFS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| BZ CAREERS, INC. | 12 | 2.22 | 11 | 1.65 | 17 | 2.48 | 1.95 |
| B3 CATALYST PAMPHLETS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 84 CHROFICLE SUIDANCE | 32 | 5.93 | 46 | 6.89 | 55 | 8.02 | 7.14 |
| BS SRA BRIEFS | 15 | 2.78 | 26 | 3.89 | 21 | 3.06 | 3.54 |
| B6 OCCUP. GUIDANCE BRIEFS | 6 | 1.11 | 4 | 0.60 | 11 | 1.60 | 0.95 |
| B7 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| BB JOB FACT SHEETS | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| B9 VOCATIONAL BIOGRAPHIES | 2 | 0.37 | 5 | 0.75 | 7 | | 0.80 |
| BIO OCCUP, BRIEFS PUBLISHED BY STATE | 4 | 0.74 | 16 | 2.40 | 7 | | 1.83 |
| B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 2 | 0.37 | 6 | 0.90 | 3 | | 0.71 |
| B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| B13 WRITE-UPS BY FORMER STUDENTS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 814 OTHER (OCCUP, BRIEFS AND KITS) | 4 | 0.74 | 8 | 1.20 | 5 | 0.73 | 1.01 |
| C1 CAREER HORLD | 0 | 0.0 | 1 | | 0 | 0.0 | 0.09 0.09 |
| C2 OCCUP, IN DEMAND | 0 | 0.0 | 1 | | 0 | 0.0 | 0.09 |
| C3 OCCUP, OUTLOOK QUARTERLY | 0 | 0.0 | 1 | | 3 | | 0.22 0.0 |
| C4 REAL MORLD | 0 | Q.Ō | 0 | | 0 | 0.0 | 0.0 |
| C5 CIVIL SERVICE EXAM BULLETIMS | 0 | 0.0 | 1 | 0.15 | 4 | 0.58 | V.27 0.09 |
| C6 OTHER (PERIODICALS) | 0 | 0.0 | 0 | 0.0 | Ş | 0.29 | V. UY |



| HAMBER OF OBSERVATIONS | STRATUM1 540 | | | PATUME 668 | STRATURIS 686 | | MATL EST |
|---|-----------------|---------|------|---------------|------------------|---------|----------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEH CONTINUED) | | | | | | | |
| 12C RESOURCE USED FOR QUES BE SPEC APTITUDE/ABILITY/SKILL FOR | VARIOUS | occ . | | | | | |
| DI OPPURTUNITIES IN | 0 | 0.0 | • | 0.0 | 1 | 0.15 | 9.84 |
| DE YOUR CAREER IN | \$ | 0.37 | 3 | 0.45 | 2 | 0.29 | 0.39 |
| D3 YOUR FUTURE IN | 1 | 0.17 | 0 | 0.0 | \$ | 0.29 | 0.11 |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 5 | 0.37 | ž | 0.30 | 1 | 0.15 | 0.26 |
| EL DIRECTORIES OF BUSINESSES | 0 | 0.0 | 1 | 0.15 | • | 0.0 | 0.89 |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 1 | | 0 | 0.0 | • | 0.0 | 0.02 |
| E3 OTHER (LIST OF EMPLOYERS) | 0 | 0.0 | 0 | 0.0 | 0 | 6.0 | ●.● |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 3 | | 2 | 0.30 | • | 0.58 | 0.41 |
| FZ VOCATIONAL SCHOOL DIRECTORIES | 3 | 0.56 | 5 | 0.75 | 2 | 0.29 | 0.59 |
| F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF | 0 | 0.0 | 1 | 0.15 | 9 | 0.0 | 0.09 |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| 61 CHOICES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| es coin | 10 | 1.85 | 2 | 0.30 | 7 | 1.02 | 0.44 |
| 63 CA13 | 5 | 0.93 | 1 | 0.15 | 3 | 0.44 | 0.31 |
| 64 DISCOVER | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| 65 615 | 23 | 4.26 | 11 | 1.65 | 42 | 6.12 | 3.25 |
| G6 YOUR STATE SYSTEM | 9 | 1.67 | 28 | 4.19 | 40 | 5.63 | 4.47 |
| 67 YOUR SCHOOL OR COUNTY SYSTEM | 2 | 0.37 | 1 | 0.15 | 3 | 0.44 | 0.24 |
| GB OTHER (COMPUTERIZED INFO. SYSTEMS) | 2 | 0.37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| HI YOUR OWN SCHOOL MADE A-V EQUIP. | 9 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| HZ EXTERNALLY PRODUCED A-V EQUIP. | 2 | 0 37 | 5 | 0.75 | 4 | 0.58 | 0.66 |
| H3 OTHER (AUDIO-VISUAL) | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| Il STATE OR REGIONAL MICROFILM | 21 | 3 89 | 52 | 7.78 | 42 | 6.12 | 6.92 |
| IZ LOCAL MICROFILM | 3 | 0.55 | 1 | 0.15 | 0 | 0.0 | 0.14 |
| 13 OTHER (MICROFORMS) | 0 | 0 . v | 0 | 0.0 | 0 | 0.0 | 0.0 |
| J1 KEY OR NEEDLESORT | 2 | 0.37 | 13 | 1.95 | 3 | 0.44 | 1.34 |
| JE SCORE INTERP GUIDES FOR INVENTORIES | 2 | 0.37 | 4 | 0.60 | 5 | 0.73 | 56.0 |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 0 | 0.0 | 3 | 0.45 | 2 | 0.29 | 0.36 |
| K1 COURSES IN CAREER PLANNING | 1 | 0.19 | 3 | 0.45 | 0 | 0.0 | 0.29 |
| KZ OCCUP, INFO. UNITS IN SUBJECT MATTER CLASSES | 5 | 0.93 | 4 | 0.60 | 3 | 0.44 | 0.58 |
| K3 EXPLORATORY WORK EXPERIENCE | 2 | 0.37 | 1 | 0.15 | 1 | 0.15 | 0.17 |
| K4 CAREER DAYS, SPEAKERS, ETC. | 3 | 0.56 | 4 | 0.60 | 2 | 95.0 | 0.50 |
| KS CAREER CLUBS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K6 VOLUNTEER SER/ICE ARRANGED BY SCHOOL | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| K7 JOB SITE TOURS | 1 | 0.19 | 2 | 0.30 | 0 | 0.0 | 0.20 |
| K8 JD8 SHADOHING | 0 | 0.0 | 0 | 0.0 | 5 | 0.29 | 0.09 |
| K9 CONFERENCES WITH COMMUNITY REPS | 3 | 0.56 | 1 | 0.15 | 0 | 0.0 | 0.14 |
| KID OTHER (SCHOOL ARRANGED EXPERIENCES) | Ō | 0.0 | 3 | 0.45 | 3 | 0.44 | 0.41 |
| L1 SIMULATIONS | 2 | 0.37 | 1 | 0.15 | 0 | 0.0 | 0.12 |
| | | | | | | | |



| MANGER OF DESERVATIONS | STRATUM1 540 | | SYRATUM2 668 | | STRATUMS 686 | | HATL EST |
|---|-----------------|---------|-----------------|---------|-----------------|---------|------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEH CONTINUED) | | | | | | | |
| 12C RESOURCE USED FOR QUES RE SPEC APTITUDE/ABILITY/SKILL FOR V | ARIOUS | occ | | | | | |
| MI CONFERENCES WITH COUNSELORS | 5 | 0.37 | 5 | 0.75 | • | 0.58 | 9.66 |
| ME ASSISTANCE FROM OTHER STAFF | 1 | 0.19 | 0 | 0.0 | 7 | 0.15 | 0.06 |
| A99 BOUND REFERENCES | 2 | 0.37 | 0 | 0.0 | 1 | 0.15 | 0.08 |
| 899 OCCUPATIONAL BRIEFS AND KITS | 5 | 0.37 | 5 | 0.30 | 1 | 0.15 | 9.26 |
| COO PERIODICALS | 0 | 0.0 | 0 | 0.0 | 9 | 0.0 | 0.0 |
| DOO SERIES OF BOOKS ON INDIV. OCC. | 0 | 0.0 | 0 | ÷.0 | 0 | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0.0 | Đ | 0.0 | 0 | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0 0 | • | 0.0 | 0.0 |
| G99 COMPUTERIZED INFO. SYSTEMS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.9 |
| HOO AUDIG-VISUAL MATERIALS | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | SC.0 |
| I99 MICROFORMS | 0 | 0.0 | 0 | 0.0 | • | 0.0 | 0.0 |
| JOO HON-CLEPUTERIZED SORTING MATERIALS | 0 | ೭.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| L99 SIMULATIONS | 0 | 0.0 | 0 | 0.0 | | 0.0 | 0.0 |
| MOS PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NA HOT APPLICABLE | 16 | 2 96 | 15 | 2.25 | | 1.17 | 1.98 |
| DK DON'T KHOM | 19 | 3.52 | 56 | 3 89 | 10 | 1.46 | 3.11 |
| NO RESPONSE | 53 | 9.81 | 78 | 11.68 | 48 | 7.00 | 10.06 |
| 12D RESOURCE USED FOR QUES RE MORK ACTIVITIES IN VARIOUS OCCUP- | ATIONS | | | | | | |
| AL OCCUPATIONAL OUTLOOK HANDBOOK | 161 | 29.81 | 181 | 27.10 | 200 | 29.15 | 27.94 |
| AZ DICTIONARY OF PCCUP, TITLES | 66 | 12.22 | 73 | 10.93 | 73 | 10.64 | 10.94 |
| A3 GUIDE FOR OCCUP. EXPLORATION | 10 | 1.85 | 8 | 1.20 | 2 | 0.29 | 0.98 |
| A4 ENCTEL, OF CAREERS AND VOC. GUIDANCE | 23 | 4.26 | 24 | 3.59 | 29 | 4.23 | 3.84 |
| AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG H | 1 | 0.19 | Ò | 0.0 | 0 | 0.0 | 0.02 |
| AS EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| A7 THE NATIONAL APPRENTICESHIP PROGRAM | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| AS OCCUP, HANDSOOKS FOR THE MILITARY | 3 | 0.56 | 2 | 0.30 | 1 | 0.15 | 0.27 |
| A9 HORKER TRAIT GROUP GUIDE | | 6.74 | 3 | 0.45 | ð | 1.17 | 0.69 |
| ALD OTHER (BOUND REFERÊNCES) | 0 | 0.0 | 5 | 0.75 | 4 | 0.58 | 0.63 |
| B1 B'NAI B'RITH BRIEFS | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| B2 CAREERS, INC. | 9 | 1.67 | 12 | 1.80 | 19 | 2.77 | 2.08 |
| B3 CATALYST PAMPHLETS | 0 | 0.0 | 0 | 0.0 | . 0 | 0.0 | 0.0 |
| B4 CHRONICLE GUIDANCE | 34 | 6.30 | 49 | 7.34 | 69 | 10.06 | 8.07 |
| BS SRA BRIEFS | 18 | 3.33 | 29 | 4.34 | 5.3 | 3 . 35 | 3.94 |
| 86 OCCUP, GUIDANCE BRIEFS | 1 | | 8 | | 9 | 1.31 | 1.14 |
| B7 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| BB JOB FACT SHEETS | 1 | 0.19 | 0 | 0.0 | . 3 | 5.44 | 0.15 |
| B9 VOCATIONAL BIOGRAPHIES | 3 | 0.56 | 10 | 1.50 | 18 | 2.62 | 1.76 |
| | | | | | | ŧ | CONTINUED) |



| NUMBER OF OBSERVATIONS | | STRATUM1 540 | | STRATURE 668 | | STRATUMS 686 | | MATL EST |
|------------------------|---|-----------------|--------------|-----------------|---------|-----------------|---------|----------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | | | | | |
| 120 | RESOURCE USED FOR QUES RE WORK ACTIVITIES IN VARIOUS OCCU | PATIONS | | | | | | |
| | BIO OCCUP. BRIEFS PUBLISHED BY STATE | 7 | 1.30 | 13 | 1.95 | 10 | 1.46 | 1.74 |
| | BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 3 | 0.56 | 4 | 0.60 | 5 | 0.73 | 0.63 |
| | B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 3 | 0.56 | 2 | 0.30 | 1 | 0.15 | 0.27 |
| | B13 MRITE-UPS BY FORMER STUDENTS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | B14 OTHER (OCCUP. BRIEFS AND KITS) | 1 | 0.19 | 7 | 1.05 | 3 | 0.44 | 0.78 |
| | C1 CAREER WORLD | 2 | 0.37 | 0 | 0.0 | 3 | 0.44 | 0.17 |
| | C2 OCCUP. IN DEMAND | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | C3 OCCUP, OUTLOOK QUARTERLY | Ō | 0.0 | 1 | 0.15 | 5 | 0.73 | 0.31 |
| | C4 REAL MORLD | 2 | 0.37 | 2 | 0.30 | 0 | 0.0 | 0.21 |
| | CS CIVIL SERVICE EXAM BULLETINS | Ō | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | C6 OTHER (PERIODICALS) | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| 1 | DI OPPURTUNITIES IN | 4 | 0 74 | i | 0.15 | 1 | 0.15 | 0.20 |
| 1 | DZ YOUR CAREER IN | Ô | 0.0 | 2 | 0.30 | 0 | 0.0 | 0.18 |
| , | DE YOUR FUTURE IN | , | 0.37 | ž | 0.30 | 3 | 0.44 | 0.35 |
| | D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 0 | 0 0 | ī | 0.15 | 0 | 0.0 | 0.09 |
| | EL DIRECTORIES OF BUSINESSES | 0 | 0 0 | ĩ | 0.15 | 0 | 0.0 | 0.09 |
| | EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | Ď | 0 0 | ō | 0.0 | 0 | 0.0 | 0.8 |
| | ES OTHER (LIST OF EMPLOYERS) | Ď | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 0 | 0.0 | ī | 0.15 | 1 | 0.15 | 0.14 |
| | F2 VOCATIONAL SCHOOL DIRECTORIES | 4 | 0.74 | 3 | 0.45 | 3 | 0.44 | 0.47 |
| | F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF | ā | 0 0 | Ď | 0.0 | 0 | 0.0 | 0.0 |
| | F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0.0 | ō | 0.0 | 0 | 0.0 | 0.0 |
| | 61 CHOICES | ō | 0.0 | ō | 0.0 | Ò | 0.0 | 0.0 |
| | 62 COIN | 10 | 1.85 | ž | 0.30 | 5 | 0.73 | 0.57 |
| | 63 CVIS | 4 | 0.74 | ž | 0.30 | Ď | 0.0 | 0.25 |
| | 64 DISCOVER | ĭ | 0.19 | ō | 0.0 | ō | 0.0 | 0.02 |
| | 82 BIZ | 19 | 3.52 | 15 | 2.25 | 36 | 5.25 | 3.28 |
| | | 12 | 2.22 | 26 | 3.89 | 36 | 5.25 | 4.16 |
| | 66 YOUR STATE SYSTEM | 2 | 0.37 | 0 | 0.0 | 1 | 0.15 | 0.08 |
| | 67 YOUR SCHOOL OR COUNTY SYSTEM | ī | 0.19 | ō | 0.0 | ō | 9.0 | 0.02 |
| | G8 OTHER (COMPUTERIZED INFO. SYSTEMS) | 1 | 0.19 | ĭ | 0.15 | ì | 0.15 | 0.15 |
| | HI YOUR OWN SCHOOL MADE A-V EQUIP. | 6 | 1.11 | 10 | 1.50 | 9 | 1.31 | 1.40 |
| | HE EXTERNALLY PRODUCED A-V EQUIP. | 0 | 0.0 | 1 | 0.15 | ó | 0.0 | 0.09 |
| | H3 OTHER (AUDIO-VISUAL) | 20 | 3.70 | 40 | 5.99 | 29 | 4.23 | 5.24 |
| | 11 STATE OR REGIONAL MICROFILM | 1 | 3.70 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| | IZ LOCAL MICROFILM | | 0.17 | 1 | 0.15 | î | 0.15 | 0.14 |
| | 13 OTHER (MICPOFORMS) | 0 | 0.0 | 9 | 1.35 | ż | 0.29 | 0.90 |
| | JI KEY OR NEEDLESORT | 0 | 3.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | J2 SCORE INTERP GUIDES FOR INVENTORIES | 1 | 0.19 | 5 | 0.30 | ŏ | 0.0 | 0.20 |
| | J3 OTHER (NON-COMPUTER SORTING MATERIALS) | • | V. 47 | • | 0.50 | • | | |



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| HAMBER OF OBSERVATIONS | | STRATUM1 540 | | STRATUM2 668 | | STRATUMS 606 | | HATL EST |
|------------------------|---|-----------------|--------------|-----------------|-------------|-----------------|---------|------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | | | | | |
| | | | | | | | | |
| 120 | RESOURCE USED FOR QUES RE MORK ACTIVITIES IN VARIOUS OCCUPA | TIONS | | | | 1 | 0.15 | 0.04 |
| | K1 COURSES IN CAREER PLANNING | 0 | 0.0 | 0 | 0.0 0.30 | 3 | 0.44 | 0.35 |
| | KE OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 2 | 0.37 0.37 | 1 | 0.15 | | 0.0 | 0.12 |
| | K3 EXPLORATORY HORK EXPERIENCE | 10 | 1.85 | 5 | 0.75 | 3 | 0.44 | 0.75 |
| | KA CAREER DAYS, SPEAKERS, ETC. | 10 | 0.0 | 0 | 0.75 | 5 | 0.0 | 0.0 |
| | KS CAREER CLUBS | 0 | 0.0 | 0 | 0.0 | ō | 0.0 | 0.0 |
| | K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | | 0.0 | ĭ | 0.15 | ž | 0.29 | 0.18 |
| | K7 JOB SITE TOURS | 1 | 0.19 | i | 0.0 | 3 | 0.44 | 0.15 |
| | K8 JOB SHADOMING K9 CONFERENCES WITH COMMUNITY REPS | 3 | | š | 0.45 | 0 | 0.0 | 0.32 |
| | KID OTHER (SCHOOL ARRANGED EXPERIENCES) | í | 0.19 | ĭ | 0.15 | 0 | 0.0 | 0.11 |
| | | 2 | 0.37 | ì | 0.15 | 1 | 0.15 | 0.17 |
| | L1 SIMULATIONS N1 CONFERENCES WITH COUNSELORS | ō | 0.0 | 5 | 0.30 | 3 | 0.44 | 0.32 |
| | M2 ASSISTANCE FROM OTHER STAFF | ŏ | 0 0 | ō | 0.0 | 1 | 0.15 | 0.04 |
| | A99 BOUND REFERENCES | Ä | 0.74 | Ö | 0.0 | 2 | 0.29 | 0.15 |
| | ROO DECUPATIONAL BRIEFS AND KITS | i | 0.19 | 0 | 0.0 | ٥ | 0.0 | 0.02 |
| | C99 PERIODICALS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | D99 SERIES OF BOOKS ON INDIV. OCC. | ō | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | 0.0 | Ô | 0.0 | 0.0 |
| | F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | H99 AUDIO-VISUAL MATERIALS | 1 | 0.19 | 0 | 0.0 | 0 | 0.6 | 0.02 |
| | 199 MICROFORMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | K99 SCHOOL ARRANGED EXPERIENCES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | L99 SIMULATIONS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | M99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.5 | 0 | 0.0 | 0 | 0.0 | 6.0 |
| | NA NOT APPLICABLE | 7 | 1.30 | 7 | | 6 | 0.87 | 1.02 |
| | DK DON'T KNOM | 17 | | 20 | 2.99 | _6 | 0.87 | 2.35 |
| | NO RESPONSE | 47 | 8.70 | 67 | 10.03 | 37 | 5.39 | 8.48 |
| 12F | RESOURCE USED FOR QUES RE WORK ENVIRONMENTS OF VARIOUS OCCU | JPATIO | NS | | | | | |
| | AL OCCUPATIONAL OUTLOOK HANDBOOK | 155 | | 187 | | 220 | 32.07 | 29.28 |
| | AZ DICTIONARY OF OCCUP. TITLES | 36 | 6.67 | 29 | | 31 | 4.52 | 4.60 |
| | A3 GUIDE FOR OCCUP. EXPLORATION | 5 | | 5 | | 2 | 0.29 | 0.62 |
| | A4 EHCYCL, OF CAREERS AND VOC. GUIDANCE | 24 | | 22 | | 5.7 | 3.06 | 3.32 |
| | AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG H | | | 0 | | 0 | 0.0 | 0.0 |
| | A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | | 0 | | 0 | 0.0 | 0.0 |
| | AT THE NATIONAL APPRENTICESHIP PROGRAM | 0 | | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | AB DCCUP, HANDBOOKS FOR THE MILITARY | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | | | | | | | (| CONTINUED) |



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ALL SCHOOLS

| HUMBER OF OBSERVATIONS | | STRATUM1 540 | | STRATUME 668 | | STRATUM3 686 | | NATL EST |
|------------------------|---|-----------------|---------|-----------------|---------|-----------------|---------|-----------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | F0F0 | PERCENT | | PERCENT | PERCENT |
| | AC I CRITALITY CO | **** | PERCENT | : 464 | PERCENT | ***** | , rueru | * ENGLITE |
| | (ITEH CONTINUED) | | | | | | | |
| 12 | E RESOURCE USED FOR QUES RE HORK ENVIRONMENTS OF VARIOUS OF | CUPATION | 15 | | | | | |
| | A9 MORKER TRAIT GROUP GUIDE | 3 | 0.56 | 3 | 0.45 | 3 | 0.44 | 0.45 |
| | Alo OTHER (BOUND REFERENCES) | 1 | 0.19 | 5 | 0.75 | • | 0.58 | 0.65 |
| | B1 B'HAI B'RITH BRIEFS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | B2 CAREERS, INC. | 10 | 1.85 | 10 | 1.50 | 17 | 2.48 | 1.83 |
| | B3 CATALYST PAMPHLETS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | B4 CHRONICLE GUIDANCE | 85 | 5.19 | 54 | 8.08 | 60 | 8.75 | 8.02 |
| | BS SRA BRIEFS | 15 | 2.78 | 24 | 3.59 | 19 | 2.77 | 3.26 |
| | 86 OCCUP. GUIDANCE BRIEFS | 3 | 0.56 | 9 | 1.35 | 7 | 1.02 | 1.18 |
| | B7 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | BB JOB FACT SHEETS | 3 | 0.56 | 2 | 0.30 | 4 | 0.58 | 0.41 |
| | B9 VOCATIONAL BIOGRAPHIES | 6 | 1.11 | 9 | 1.35 | 14 | 2.04 | 1.54 |
| ند | 810 OCCUP. BRIEFS PUBLISHED BY STATE | 11 | 2.04 | 9 | 1.35 | 8 | 1.17 | 1.35 |
| <u>^</u> | B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 3 | 0.56 | 3 | 0.45 | 3 | 0.44 | 0.45 |
| ī | B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 2 | 0.37 | 3 | 0.45 | 3 | 0.44 | 0.44 |
| | B13 WRITE-UPS BY FORMER STUDENTS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | B14 OTHER (OCCUP. BRIEFS AND KITS) | 2 | 0.37 | 4 | 0.60 | 3 | 0.44 | 0.53 |
| | C1 CAREER MORLD | 0 | 0.0 | 1 | 0.15 | 5 | 0.73 | 0.31 |
| | CZ OCCUP. IN DEMAND | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | C3 OCCUP. DUTLOOK QUARTERLY | 0 | 0.0 | 2 | 0.30 | 6 | 0.87 | 0.45 |
| | C4 REAL HORLD | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| | C5 CIVIL SERVICE EXAM BULLETINS | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | C6 OTHER (PERIODICALS) | 0 | 0.0 | 0 | 0.0 | Ţ | 0.15 | 0.04 |
| | D1 OPPURTUNITIES IN | 5 | 0.93 | 2 | 0.30 | 3 | 0.44 | 0.40 |
| | DZ YOUR CAREER IN | 2 | 0.37 | 3 | 0.45 | 2 | 0.29 | 0.39 |
| | D3 YOUR FUTURE IN | 3 | 0.56 | 2 | 0.30 | 2 | 0.29 | 0.32 |
| | D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 1 | 0.19 | 2 | 0.30 | 0 | 0.0 | 0.20 |
| | El DIRECTORIES OF BUSINESSES | 1 | 0.19 | 2 | 0.30 | 0 | 0.0 | 0.20 |
| | EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 1 | 0.19 | 0 | 0.0 | 5 | 0.73 | 0.24 |
| | E3 OTHER (LIST OF EMPLOYERS) | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| | F2 VOCATIONAL SCHOOL DIRECTORIES | 3 | 0.56 | 4 | 0.60 | 3 | 0.44 | 0.54 |
| | F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | 61 CHOICES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | 62 COIN | 7 | 1.30 | 2 | 0.30 | 5 | 0.73 | 0.52 |
| | 63 CVIS | 4 | 0.74 | 0 | 0.0 | 1 | 0.15 | 0.11 |
| | 64 DISCOVER | 2 | 0.37 | 0 | 0 0 | 0 | 0.0 | 0.03 |
| | 65 GIS | 17 | 3.15 | 11 | 1.65 | 33 | 4.81 | 2.75 |
| | G6 YOUR STATE SYSTEM | 9 | 1.67 | 23 | 3.44 | 33 | 4.81 | 3.70 |
| | | | | | | | | |

(CONTINUED)



428

| NUMBER OF OBSERVATIONS | | RATUHL 540 | | RATUMZ 568 | | RATUM3 686 | NATL EST |
|--|------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| | | _ | | | | | |
| 12E RESOURCE USED FOR QUES RE MORK ENVIRONMENTS OF VARIOUS | | | | . 16 | | 0.29 | 0.20 |
| 67 YOUR SCHOOL OR COUNTY SYSTEM | 1 | 0.19 | 1 | 0.15 | 2 | 0.27 | 0.11 |
| G& OTHER (COMPUTERIZED INFO. SYSTEMS) | 1 | 0.19 | 1 | 0.15 0.15 | 1 | 0.15 | 0.18 |
| HI YOUR OWN SCHOOL MADE A-V EQUIP. | 3 | 0.56 | _ | | 19 | 2.77 | 2.55 |
| HE EXTERNALLY PRODUCED A-V EQUIP. | 10 | 1.85 | 17 | 2.54 | 14 | 0.0 | 0.02 |
| H3 OTHER (AUDIO-VISUAL) | 1 | 0.19 | .0 | 0 0 | 29 | 4.23 | 4.69 |
| II STATE OR REGIONAL MICROFILM | 14 | 2.59 | 35 | 5.24 | 1 | 0.15 | 0.17 |
| IZ LOCAL MICROFILM | ż | 0.37 | 1 | 0.15 | - | 0.13 | 0.09 |
| I3 OTHER (MICROFORMS) | 0 | 0.0 | .0 | 0.0 | 2 | 0.29 | 1.01 |
| J1 KEY OR MEEDLESORT | 1 | 0.19 | 11 | 1.65 | • | | |
| JE SCORE INTERP GUIDES FOR INVENTORIES | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 1 | 0.19 | 4 | 0.60 | 0 | 0.0 | 0.38 |
| K1 COUPSES IN CAREER PLANNING | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| KZ OCCUP, INFO, UNITS IN SUBJECT MATTER CLASSES | 1 | 0.19 | 3 | 0.45 | 1 | 0.15 | 0.33 |
| K3 EXPLORATORY WORK EXPERIENCE | 5 | 0.93 | 4 | 0 60 | 6 | 0.87 | 0.71 |
| K4 CAREER DAYS, SPEAKERS, ETC. | 8 | 1 48 | 5 | 0.75 | 4 | 0.58 | 0.76 |
| KS CAREER CLUBS | 0 | 0.0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K7 JOB SITE TOURS | 11 | 2.04 | 10 | 1.50 | 11 | 1.60 | 1.58 |
| KA JOB SHADOWING | 2 | 0.37 | 1 | 0.15 | 3 | 0.44 | 0.26 |
| K9 CONFERENCES WITH CONTUNITY REPS | 4 | 0.74 | 7 | 1.05 | 3 | 0.44 | 0.83 |
| KIO OTHER (SCHOOL ARRANGED EXPERIENCES) | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| L1 SIMULATIONS | 4 | 0.74 | 1 | 0.15 | 0 | 0.0 | 0.16 |
| M1 CONFERENCES WITH COUNSELORS | 1 | 0.19 | 6 | 0.90 | 4 | 0.58 | 0.74 |
| M2 ASSISTANCE FROM OTHER STAFF | 0 | 0 0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| A99 BOUND REFERENCES | 3 | 0.56 | 0 | 0.0 | 1 | 0.15 | 0.09 |
| 899 OCCUPATIONAL BRIEFS AND KITS | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| C99 PERIODICALS | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| D99 SERIES OF BOOKS ON INDIV. OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| G99 COMPUTERIZED INFO. STSTEMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| H99 AUDIO-VISUAL MATERIALS | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| 199 MICROFORMS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| JOO NON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| L99 SIMULATIONS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| H99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NA NOT APPLICABLE | 13 | 2.41 | 16 | 2.40 | 11 | 1.60 | 2.15 |
| DK DON'T KNOW | 29 | 5.37 | 30 | 4.49 | 16 | 2.33 | 3.90 |
| NO RESPONSE | 54 | 10.00 | 75 | 11.23 | 46 | 6.71 | 9.72 |
| | | | | | | | |



| HUPBER OF OBSERVATIONS | STRATUH1 540 | | STRATURE 668 | | STRATUMS 686 | | NATL EST |
|--|-----------------|---------|-----------------|---------|-----------------|---------|----------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREG | PERCENT | PERCENT |
| 12F RESOURCE USED FOR QUES RE SECURITY/JOB TENURE OF VARIOUS OF | CUPATI | ON3 | | | | | |
| AL OCCUPATIONAL DUTLOOK HANDBOOK | 168 | 31.11 | 189 | 28.29 | 226 | 32 . 94 | 29.94 |
| AZ DICTIONARY OF OCCUP. TITLES | 14 | 2.59 | 18 | 2.69 | 10 | 1.46 | 2.30 |
| A3 GUIDE FOR OCCUP. EXPLORATION | 5 | 0.93 | 3 | 0.45 | 1 | 0.15 | 0.40 |
| A4 ENCYCL, OF CAREERS AND VOC. GUIDANCE | 13 | 2.41 | 19 | 2.84 | 14 | 2.04 | 2.56 |
| | | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 9.02 |
| A7 THE NATIONAL APPRENTICESHIP PROGRAM | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| AS OCCUP. HANDSOOKS FOR THE MILITARY | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| A9 WORKER TRAIT GROUP GUIDE | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| A10 OTHER (BOUND REFERENCES) | 4 | 0.74 | 3 | 0.45 | 2 | 0.29 | 0.43 |
| B) B'HAI B'RITH BRIEFS | 0 | 0.0 | 0 | 0.0 | ٥ | 0.0 | 0.0 |
| BZ CAREERS, INC. | 6 | 1.11 | 4 | 0.60 | 7 | 1.02 | 0.77 |
| B3 CATALYST PAMPHLETS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| B4 CHRONICLE GUIDANCE | 12 | 2.22 | 31 | 4.64 | 40 | 5.83 | 4.79 |
| B5 SRA BRIEFS | 7 | 1.30 | 18 | 2.69 | 10 | 1.46 | 2.19 |
| B6 OCCUP. GUIDANCE BRIEFS | 1 | 0.19 | 2 | 0.30 | 5 | 0.73 | 0.42 |
| B7 GUIDANCE CENTRE MONOGRAPHS | ٥ | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG WAS EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED AT THE NATIONAL APPRENTICESHIP PROGRAM AS OCCUP. HANDSOOKS FOR THE MILITARY AP WORKER TRAIT GROUP GUIDE ALO OTHER (BOUND REFERENCES) BI B'NAI B'RITH BRIEFS BE CAREERS, INC. B3 CATALYST PAMPHLETS B4 CHRONICLE GUIDANCE B5 SRA BRIEFS B6 OCCUP. GUIDANCE BRIEFS B7 GUIDANCE CENTRE MONOGRAPHS B8 JOB FACT SHEETS B9 VOCATIONAL BIOGRAPHIES B10 OCCUP. BRIEFS PUBLISHED BY STATE B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 2 | 0.37 | 3 | 0.45 | 2 | 0.29 | 0.39 |
| B9 VOCATIONAL BIOGRAPHIES | 3 | 0.56 | 4 | 0.60 | 7 | 1.02 | 0.72 |
| BIO OCCUP. BRIEFS PUBLISHED BY STATE | 6 | 1.11 | 17 | 2.54 | 10 | 1.46 | 2.08 |
| B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 13 | 2.41 | 8 | 1.20 | 8 | 1.17 | 1.29 |
| | | | 1 | 0.15 | 3 | 0.44 | 0.34 |
| B13 WRITE-UPS BY FORMER STUDENTS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| B14 OTHER (GCCUP, BRIEFS AND KITS) | 7 | 1 30 | 3 | 0.45 | 6 | 0.87 | 0.65 |
| C) CAREER HORLD | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| CZ OCCUP. IN DEMAND | 5 | 0.93 | 2 | 0.30 | 1 | 0.15 | 0.31 |
| C3 OCCUP, OUTLOOK QUARTERLY | 17 | 3.15 | 12 | 1.80 | 17 | 2.48 | 2.12 |
| C4 REAL HORLD | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| BIZ PAMPHLETS PREPARED BY PRIVATE BUSINESS B13 HRITE-UPS BY FORMER STUDENTS B14 OTHER (OCCUP. BRIEFS AND KITS) C1 CAREER HORLD C2 OCCUP. IN DEMAND C3 OCCUP. OUTLOOK QUARTERLT C4 REAL HORLD C5 CIVIL SERVICE EXAM BULLETINS C6 OTHER (PERIODICALS) D1 OPPURTUNITIES IN D2 YOUR CAREER IN D3 TOUR FUTURE IN | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| C6 OTHER (PERIODICALS) | 3 | 0 56 | 3 | 0.45 | 2 | 0.29 | 0.41 |
| D1 OPPURTUNITIES IN | 3 | 0.56 | 1 | 0.15 | 5 | 0.73 | 0.36 |
| DE YOUR CAREER IN | 1 | 0.19 | 0 | 0.0 | 3 | 0.44 | 0.15 |
| D3 TOUR FUTURE IN | 5 | 0.93 | 4 | 0.60 | 1 | 0.15 | 0.49 |
| 04 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 1 | 0.19 | 2 | 0.30 | 0 | 0.0 | 0.20 |
| EL DIRECTORIES OF BUSINESSES | 0 | 0.0 | Z | 0.30 | 0 | 0.0 | 0.18 |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 5 | 0.93 | 0 | 0.0 | 4 | 0.58 | 0.26 |
| E3 OTHER (LIST OF EMPLOYERS) | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| F2 VOCATIONAL SCHOOL DIRECTORIES | 1 | 0.19 | 2 | 0.30 | 2 | 0.29 | 0.29 |
| F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF | 1 | 0.19 | 0 | 0.0 | 0 | 0.C | 0.02 |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 9.02 |

(CONTINUED)



| HAMBER OF OBSERVATIONS | | RATUM1 540 | | RATUMS 668 | | RATUMS 686 | HATL EST |
|--|----------|---------------|------|---------------|------|---------------|-------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEN CONTINUED) | | | | | | | |
| 12F RESOURCE USED FOR QUES RE SECURITY/JOB TENURE OF VARIOUS | OCCUPATI | OHS | _ | | _ | | 0.0 |
| 61 CHOICES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.27 |
| es coim | 3 | 0.54 | 7 | 0.15 | 3 | 0.44 | 0.12 |
| 63 CVIS | ž | 0.37 | 1 | 0.15 | 0 | 0.0 | 0.16 |
| 64 DISCOVER | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1.30 |
| 65 613 | 11 | 2.04 | . 2 | 0.30 | 21 | 3.06 | 2.20 |
| GA YOUR STATE SYSTEM | 5 | 0.93 | 11 | 1.65 | 27 | 3.94 | 0.04 |
| 67 YOUR SCHOOL OR COUNTY SYSTEM | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.02 |
| GA OTHER (COMPUTERIZED INFO. SYSTEMS) | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | * |
| HI YOUR OWN SCHOOL MADE A-V EQUIP. | 0 | 0 .0 | 0 | 0.0 | 0 | 0 | 0.0 |
| HZ EXTERNALLY PRODUCED A-V EQUIP. | 3 | 0.56 | 5 | 0.75 | • | د و | 0.68 |
| H3 OTHER (AJOIO-VISUAL) | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| Il STATE OR REGIONAL MICROFILM | 13 | 2.41 | 27 | 4.04 | 53 | 3.35 | 3.68 |
| IZ LOCAL MICROFILM | 2 | 0.37 | 1 | 0.15 | 0 | 0.0 | 0.12 |
| 13 OTHER (MICROFORMS) | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| J1 KEY OR NEEDLESORT | 0 | 0.0 | 5 | 0.75 | 1 | 0.15 | 0.50 |
| JE SCORE INTERP GUIDES FOR INVENTORIES | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| JE OTHER (NON-COMPUTER SORVING MATERIALS) | 0 | 0.0 | ž | 0.36 | 0 | 0.0 | 0.18 |
| KI COURSES IN CAREER PLANNING | 1 | 0.19 | 1 | 0.15 | 3 | 0.44 | 0.24 |
| K2 OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 2 | 0.37 | 0 | 0.0 | 3 | 0.44 | 0.17 |
| K3 EXPLORATORY MORK EXPERIENCE | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 9.11 |
| K4 CAREER DAYS, SPEAKERS, ETC. | 9 | 1.67 | 7 | 1.05 | 6 | 0.87 | 1.05 |
| KS CAREER CLUBS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 0 | 0.0 | 0 | 0.8 | 0 | 0.0 | 0.0 |
| K7 JOB SITE TOURS | 2 | 0.37 | 2 | 0.30 | 1 | 0.15 | 0.26 |
| KB JOB SHADONING | 3 | 0.56 | 1 | 0.15 | . 6 | 0.87 | 0.41 |
| K9 CONFERENCES WITH COMMUNITY REPS | 10 | 1.85 | 11 | 1.65 | 13 | | 1.74 |
| K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 1 | 0.19 | 1 | 0.15 | 1 | | 0.15 |
| L1 SIMULATIONS | 0 | 0.0 | 1 | 0.15 | 1 | | 0.14 |
| M1 CONFERENCES WITH COUNSELORS | 1 | 0.19 | 4 | 0.60 | 6 | | 0.65 |
| M2 ASSISTANCE FROM OTHER STAFF | 0 | 0.0 | 0 | 0.0 | 0 | | 0.0 |
| A99 BOUND REFERENCES | 3 | 0.56 | 0 | 0.0 | 3 | | 0.18 |
| B99 OCCUPATIONAL BRIEFS AND KITS | 1 | 0.19 | 2 | 0.30 | 1 | | 0.24 |
| C99 PERIODICALS | 0 | 0.0 | 0 | 0.0 | 0 | | 0.0 |
| D99 SERIES OF BOOKS ON INDIV. OCC. | 0 | 0.0 | 0 | 0.0 | 0 | | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | 0.0 | - | | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0.0 | 0 | | 0.0 |
| 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0.0 | 0 | 0.0 | 0 | | 0.0 |
| H99 AUDID-VISUAL MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | | 0.0 |
| 199 MICROFORMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| arr made one | | | | | | | (CONTINUED) |

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| HARBER OF OBSERVATIONS | - | RATUMI 540 | | RATURE 668 | | RATUM3 686 | MATL EST |
|--|---------------------------------------|---------------|------|---------------|------|---------------|--------------|
| ITEMS AND ALTERNATIVES | | | | | | | |
| ALIERNA 11453 | FREG | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 12F RESOURCE USED FOR QUES RE SECURITY/JOB TENURE OF VAR | TOUS OCCUPATI | ON3 | | | | | |
| "9 MON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0.0 | • | 0.8 | 0.0 |
| K? HOOL ARRANGED EXPERIENCES | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| L AULATIONS | 0 | 0.0 | ð | 0.0 | 0 | 0.0 | 0.0 |
| HOO PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 9 | 0.0 | 0 | 0.0 | 0.0 |
| NA NOT APPLICABLE | 85 | 5.19 | 49 | 7.34 | 34 | 5.25 | 4.50 |
| DK DON'T KNOM | 48 | 8.89 | 85 | 12.72 | 49 | 10.04 | 11.5 |
| NO RESPONSE | 70 | 12.96 | 93 | 13.92 | 67 | 9.77 | 17 33 |
| 126 RESOURCE USED FOR QUES RE OPPORTUNITY HELPING OTHERS | IN VARIOUS (| cc | | | | | |
| A1 OCCUPATIONAL OUTLOOK HANDBOOK | 74 | 13.70 | 109 | 16.32 | 108 | 15.74 | 15.89 |
| AZ DICTIONARY OF OCCUP. TITLES | 17 | 3.15 | 19 | 2.84 | 19 | 2.77 | 2.45 |
| A3 GUIDE FOR OCCUP. EXPLORATION | | 0.74 | 7 | 1.05 | | 0.87 | 0.97 |
| A4 ENCYCL. OF CAREERS AND VOC. GUIDANCE | 18 | 3 33 | 35 | 2.25 | 18 | 2,62 | 2.46 |
| IF T SALE OF ALLEGED PARTIES AND AND AND ARE | A. a. a | 0.19 | | 0.15 | | 0.0 | 0.11 |
| AS EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | · · · · · · · · · · · · · · · · · · · | 0.56 | 2 | 0.30 | ĭ | 0.15 | 0.27 |
| AT THE NATIONAL APPRENTICE THIP PROGRAM | | 0.0 | ò | 0.0 | ò | 0.0 | 0.0 |
| AA DECLIP HANDROOKS FOR THE HILLTARY | 0 | 0.0 | ō | 0.0 | 5 | 0.0 | 0.0 |
| AS MORED TOATT COMIN CUITOF | š | 0.56 | à | 1.20 | 5 | 0.73 | 1.00 |
| AND OTHER (ROLLING DESERVICES) | 4 | 0.74 | 6 | 0 90 | · · | 0.87 | 0.88 |
| AL RINAT RIDITH ADTESS | ŏ | 0.0 | 1 | 0 15 | ĭ | 0.15 | 0.14 |
| AS I CAN BE ANTIHING: CAREERS AND COLLEGES FOR TA A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED A7 THE NATIONAL APPRENTICESHIP PROGRAM A8 OCCUP. HANDBOOKS FOR THE MILITARY A9 HORKER TRAIT GROUP GUIDE A10 OTHER (BOUND REFERENCES) B1 B'NAI B'RITH BRIEFS B2 JAREERS, INC. B3 CATALYST PAMPHLETS B4 CHRONICLE GUIDANCE B5 SRA BRIEFS | 7 | 1.39 | 5 | 0.75 | 11 | 1.60 | 1.06 |
| RE FATALYET DANDMISTE | Ó | 0.0 | 0 | 0.75 | 10 | 0.0 | 0.0 |
| BA CHRONICIE CITTANES | 11 | 2 04 | 23 | 3.44 | 32 | 4.66 | 3.69 |
| B5 SRA B?IEFS | 11 | 2.04 | 19 | 2.84 | 35 | 1.31 | 2.30 |
| 86 OCCUP, GUIDANCE BRIEFS | 1 | 0.19 | 3 | | 3 | 0.44 | 2.30 0.42 |
| B7 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.19 | 0 | 0.45 | 0 | 0.44 | 0.42 |
| BB JOB FACT SHEETS | 0 | 0.0 | 0 | 0.0 0.0 | 1 | 0.15 | 0.04 |
| B9 VOCATIONAL BIOGRAPHIES | 4 | 0.0 | • | | 8 | 1.17 | |
| | | | 6 | 0.90 | _ | | 0.97 |
| BIO OCCUP. BRIEFS PUBLISHED BY STATE | . 8 | 1.48 | 13 | 1.95 | | 0.29 | 1.40 |
| B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 10 | 1 85 | 7 | 1.05 | 13 | 1.90 | 1.38 |
| B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 2 | 0.37 | 1 | 0.15 | 1 | 0.15 | 0.17 |
| B13 MRITE-UPS BY FORMER STUDENTS | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| B14 OTHER (OCCUP, BRIEFS AND KITS) | 2 | 0.37 | 3 | 0.45 | • | 3-38 | 0.48 |
| C1 CAREER HORLD | 3 | 0.56 | 0 | 0.0 | 3 | 0.44 | 0.18 |
| CZ OCCUP. IN DEHAND | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| C3 DCCUP, DUTLOOK QUARTERLY | ž | 0.37 | 2 | | 2 | 0.29 | 0.30 |
| C4 REAL HORLD | 4 | 0.74 | 3 | 0.45 | 1 | 0.15 | 0.38 |
| C5 CIVIL SERVICE EXAM BULLETINS | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.01 |
| C6 OTHER (PERIODICALS) | 1 | 0.19 | Ú | 0.0 | 1 | 0.15 | 0.06 |

(CONTINUED)

ERIC Full Text Provided by ERIC

| SER OF OBSERVATIONS | | RATUM1 540 | | RATUM2 668 | | RATUMS 686 | HATL E |
|---|------|---------------|------|---------------|--------|---------------|--------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCE |
| (ITEH CONTINUED) | | | | | | | |
| | | | | | | | |
| RESOURCE USED FOR QUES RE OPPORTUNITY HELPING OTHERS IN V | | CC , ,, | 5 | 0.75 | 7 | 1.02 | 0.8 |
| DI OPPURTUNITIES IN | | 1.11 0.19 | 3 | 0.45 | Ó | 0.0 | 0.2 |
| DZ YOUR CAREER IN | 1 | 0.19 | 3 | 0.45 | ž | 0.29 | 0.4 |
| D3 YOUR FUTURE IN | • | | 0 | 0.45 | ì | 0.15 | 0.1 |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | | 0.37 | 2 | 0.30 | i | 0.15 | 0.1 |
| EL DIRECTORIES OF BUSINESSES | | 0.19 | 3 | 0.45 | i | 0.87 | 0.1 |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 3 | 0 56 | 1 | 0.45 | 1 | 0.15 | 0.3 |
| E3 OTHER (LIST OF EMPLOYERS) | U | 0.0 | 0 | 0.19 | ò | 0.0 | 0. |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 2 | 0.37 | 1 | 0.15 | 3 | 0.44 | 0. |
| F2 VOCATIONAL SCHOOL DIRECTORIES | 3 | 0 56 | _ | | 0 | 0.0 | Ŏ. |
| F3 A JOB TRAINIG DIRECT, FGR YOUR STAFF | 1 | 0.19 | 0 | 0.0 0.0 | 0 | 0.0 | 0. |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0.0 | 0 | | 0 | 0.0 | 0. |
| G1 CHOICES | 0 | 0.0 | - | 0.0 | 4 | 0.58 | 0. |
| es coin | 5 | 0.93 | 0 | 0.0 | ī | 0.15 | 0. |
| 63 CVIS | 5 | 0.37 | 0 | 0.0 | | 0.19 | 0. |
| G4 DISCOVER | | 0.0 | 1 | 0.15 | 41 | 5.98 | 3. |
| 65 6IS | 17 | 3.15 | 14 | 2.10 | 19 | 2.77 | ž. |
| G6 YOUR STATE SYSTEM | 7 | 1.3 | 13 | 1.95 | 17 | 0.0 | 0. |
| 67 YOUR SCHOOL OR COUNTY SYSTEM | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0. |
| GO OTHER (COMPUTERIZED INFO. SYSTEMS) | \$ | 0 37 | 1 | 0.15 | 3 | 0.44 | 0. |
| HI YOUR OWN SCHOOL MADE A-V EQUIP. | 0 | 0.0 | 0 | 0.0 | 9 | 1.31 | 1. |
| H2 EXTERNALLY PRODUCED A-V EQUIP. | 6 | 1.11 | 7 | 1.05 | 9 | 0.0 | 0. |
| H3 OTHER (AUDIO-VISUAL) | 0 | 0.0 | ż | 0.30 | - | 2.04 | 2. |
| IL STATE OR REGIONAL MICROFILM | 12 | 2.22 | 19 | 2.84 | 14 | 0.15 | 0. |
| IZ LOCAL MICROFILM | 2 | 0.37 | 0 | 0.0 | 1 | | 0. |
| 13 OTHER (MICROFORMS) | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0. |
| JI KEY OR NEEDLESOR | 1 | 0.19 | 7 | 1.05 | 2 | 0.29 0.73 | 0. |
| JE SCORE INTERP 6-10ES FOR INVENTORIES | 0 | 0.0 | 0 | 0.0 |) 1 | 0.73 | 0. |
| ! OTHER (NON-COMPUTER SORTING MATERIALS) | 1 | 0 19 | 5 | 0.30 | _ | 0.44 | 0. |
| 1 COURSES IN CAREER PLANNING | 0 | 0.0 | 1 | 0.15 | 3 | | 0. |
| KZ OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 5 | 0.37 | 5 | 0.30 | 3 | 0.44 | |
| K3 EXPLORATORY HORK EXPERIENCE | 5 | 0.93 | 5 | 0.30 | . 5 | 0.73 | 0. |
| K4 CAREER DAYS, SPEAKERS, ETC | 8 | 1.48 | 6 | 0.90 | 11 | 1.60 | 1. |
| K5 CAPEER CLUBS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0. |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 6 | 1.11 | 3 | | 4 | 0.58 | 0. |
| K7 JOB SITE TOURS | 3 | 0 56 | 0 | 0.0 | 2 | 0.29 | 0. |
| K8 JCB SHADOWING | 0 | 0.0 | 2 | 0.30 | 4 | 0.58 | 0. |
| K9 CONFERENCES WITH CONTUNITY REPS | 9 | 1.67 | 8 | 1.20 | 6 | 0.87 | 1. |
| KID OTHER (SCHOOL ARRANGED EXPERIENCES) | 1 | 0.19 | 1 | | 3 | 0.44 | 0. |
| L1 SIMULATIONS | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0. |

438
ERIC

| NJABE | R OF OBSERVATIONS | | RATUM1 540 | | RATUM2 668 | | ratums 684 | HATL EST |
|-------|---|--------|-------------------|------|---------------|------|---------------|----------|
| | ITEMS AND | | | | | | | |
| | ALTERNATIVES | FREG | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEH CONTINUED) | | | | | | | |
| 126 | RESOURCE USED FOR QUES RE OPPORTUNITY HELPING OTHERS IN VAR | 1005 0 | cc | | | | | |
| | M1 CONFERENCES WITH COUNSELORS | 7 | 1.30 | 10 | 1.50 | 11 | 1.60 | 1.51 |
| | M2 ASSISTANCE FROM OTHER STAFF | 1 | 0.19 | 0 | 0.0 | 3 | 0.44 | 0.15 |
| | A99 BOUND REFERENCES | 1 | 0.19 | 0 | 0.0 | • | 0.58 | 0.20 |
| | B99 OCCUPATIONAL BRIEFS AND KITS | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| | C99 PERIODICALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | D99 SERIES OF BOOKS ON INDIV. OCC. | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.07 |
| | E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | H99 AUDIO-VISUAL MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | 199 HICROFORMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | K99 SCHOOL ARRANGED EXPERIENCES | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| | L99 SIMULATIONS | Ò | 0.0 | 0 | 0.0 | Đ | 0.0 | 0.0 |
| | M99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NA NOT APPLICABLE | 46 | 8.52 | 68 | 10.18 | 46 | 6.71 | 8.96 |
| | DK DON'T KNOW | 80 | 14.81 | 103 | 15.42 | 113 | 16.47 | 15.67 |
| | NO RESPONSE | 96 | 17.7 8 | 118 | 17.66 | 90 | 13.12 | 16.26 |
| 12H | RESOURCE USED FOR QUES RE ACCESSIBILITY VAR DCC TO THE HAND | ICAPPE | D | | | | | |
| | Al OCCUPATIONAL OUTLOOK HANDBOOK | 20 | 3.70 | 50 | 7.49 | 31 | 4.52 | 6.23 |
| | AZ DICTIONARY OF OCCUP. TITLES | 6 | 1.11 | 5 | 0.75 | 9 | 1.31 | 0.95 |
| | A3 GUIDE FOR OCCUP. EXPLORATION | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| | A4 ENCYCL. OF CAREERS AND VOC. GUIDANCE | 5 | 0.93 | 5 | 0.75 | 7 | 1.02 | 0.85 |
| | AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG W | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 99 | 18.33 | 61 | 9.13 | 88 | 12.83 | 11.07 |
| | A7 THE NATIONAL APPRENTICESHIP PROGRAM | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | AS OCCUP. HANDSOOKS FOR THE MILITARY | 1 | 0.19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| | A9 WORKER TRAIT GROUP GUIDE | 1 | 0.19 | 2 | 0 30 | 1 | 0.15 | 0.24 |
| | Alo Other (Bound References) | 5 | 0.93 | 1 | 0.15 | 2 | 0.29 | 0.26 |
| | B1 B'NAI B'RITH BRIEFS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | BZ CAREERS, INC. | 1 | 0.19 | 3 | 0 45 | 3 | 0.44 | 0.42 |
| | 83 CATALYST PAMPHLETS | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | B4 CHRONICLE GUIDANCE | 5 | 0.03 | 9 | 1.35 | 9 | 1.31 | 1.30 |
| | BS SRA BRIEFS | 3 | 0.56 | 5 | 0.75 | 1 | 0.15 | 0.55 |
| | 86 OCCUP. GUIDANCE BRIEFS | 0 | 0.0 | 0 | 0.0 | z | 0.29 | 0.09 |
| | 87 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | BB JOB FACT SHEETS | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | B9 VOCATIONAL BIOGRAPHIES | 0 | 0.0 | 3 | 0.45 | 1 | 0.15 | 0.32 |

(CONTINUED)

NUMBER OF OBSERVATIONS

ITEMS AND

ALTERNATIVES

IZ LOCAL MICROFILM

13 OTHER (MICROFORMS)

JI KEY OR NEEDLESORT

JE SCORE INTERP GUIDES FOR INVENTORIES

J3 OTHER (NON-COMPUTER SORTING MATERIALS)

1

0.19

0 0

0 19

0.19

0 0.0

STRATUM1

540

FREQ PERCENT

(CONTINUED)

9.02

0.04

0.02

0.09

0.29



443

0.0

0.15

0.0

0.0

0.29

2

STRATUMS

FREQ PERCENT

STRATUME 668

FREG PERCENT

0.0

0.0

0.0

0.15

0.30

NATL EST

PERCENT

-363-

ALL SCHOOLS

| NUMBER OF OBSERVATIONS | | RATUM1 540 | | MATUMZ 668 | | RATUM3 486 | HATL EST |
|--|-----------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 12M RESOURCE USED FOR QUES RE ACCESSIBILITY VAR DCC TO THE H | ANDICAPPE | D | | | | | |
| K1 COURSES IN CAREER PLANNING | 2 | 0.37 | 0 | 0.0 | 1 | 0.15 | 0.08 |
| KZ OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 3 | 0.56 | 3 | 0.45 | 1 | 0.15 | 0.36 |
| K3 EXPLORATORY WORK EXPERIENCE | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| K4 CAREER DAYS, SPEAKERS, ETC. | 3 | 0.56 | 4 | 0.60 | 3 | 0.44 | 0.54 |
| KS CAREER CLUBS | 0 | 0.0 | 0 | 0.0 | 9 | 0.0 | 0.0 |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 2 | 0.37 | 2 | 0.30 | 3 | 0.44 | 0.35 |
| K7 JOB SITE TOURS | 2 | 0.37 | 1 | 0.15 | 3 | 0.44 | 0.26 |
| K8 JOB SHADONING | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| K9 CONFERENCES WITH COMMUNITY REPS | 11 | 2.04 | 8 | 1.20 | 15 | 2.19 | 1.57 |
| K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 3 | 0.56 | 11 | 1.65 | 11 | 1.60 | 1.54 |
| L1 SIMULATIONS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| M1 CONFERENCES WITH COUNSELORS | 7 | 1.30 | 9 | 1.35 | 10 | 1.46 | 1.38 |
| M2 ASSISTANCE FROM OTHER STAFF | 4 | 0 74 | 3 | 0.45 | 8 | 1.17 | 0.69 |
| A99 BOUND REFERENCES | 1 | 0.19 | 2 | 0.30 | 1 | 0.15 | 0.24 |
| 899 OCCUPATIONAL BRIEFS AND KITS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| C99 PERIODICALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| D99 SERIES OF BOOKS ON INDIV. OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0.0 | 3 | 0.44 | 0.13 |
| 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| H99 AUDIO-VISUAL MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 199 MICROFORMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| L99 SIMULATIONS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NA NOT APPLICABLE | 94 | 17.41 | 117 | 17.51 | 113 | 16.47 | 17.17 |
| DK DON'T KHOM | 91 | 16.85 | 153 | 22 90 | 146 | 21.28 | 21.85 |
| NO RESPONSE | 103 | 19.07 | 133 | 19.91 | 111 | 16.18 | 18.67 |
| 121 RESOURCE USED FOR QUES RE UP-TO-DATE LOCAL MAGE AND SALA | RY INFORM | ATION | | | | | |
| Al OCCUPATIONAL OUTLOOK HANDBOOK | 44 | 8.15 | 77 | 11.53 | 68 | 9.91 | 10.72 |
| AZ DICTIONARY OF OCCUP. TITLES | 6 | 1.11 | 3 | 0.45 | 3 | 0.44 | 0.50 |
| A3 GUIDE FOR OCCUP. EXPLORATION | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| A4 ENCYCL, OF CAREERS AND VOC. GUIDANCE | 4 | 0.74 | 3 | 0 45 | 1 | 0.15 | 0.38 |
| AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG | H 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| AT THE NATIONAL APPRENTICESHIP PROGRAM | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| AB OCCUP. HANDBOOKS FOR THE MILITARY | ì | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| | | | | | | | (TINUED) |



| HUMBE | ER OF OBSERVATIONS | | RATUM1 540 | | RATUME 568 | | RATUMS 686 | MATL EST |
|-------|---|----------|---------------|------|---------------|------|---------------|------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEN CONTINUED) | | | | | | | |
| | | | | | | | | |
| 121 | RESOURCE USED FOR QUES RE UP-TO-DATE LOCAL HAGE AND SALAR | Y INFORM | | | | 0 | 0.0 | 0.0 |
| | A9 MORKER TRAIT GROUP GUIDE | 0 | 0.0 | 0 | 0.0 | 7 | 1.02 | 0.99 |
| | Ale OTHER (BOUND REFERENCES) | | 1.48 | 6 | 0.90 | á | 0.0 | 0.0 |
| | B) B'HAI B'RITH BRIEFS | | 0.0 | 0 | 0.0 0.30 | 3 | 0.44 | 0.33 |
| | BE CAREERS, INC. | 1 | 0 19 | S | | 3 | 0.0 | 0.0 |
| | B3 CATALYST PAMPHLETS | 0 | 0.0 | 6 | 0.0 0.90 | 14 | 2.04 | 1.27 |
| | B4 CHRONICLE GUIDANCE | • | 1.11 | _ | 0.30 | 3 | 0.44 | 0.32 |
| | BS SRA BRIEFS | 0 | 0.0 | 2 | 0.30 0.15 | 3 | 9.0 | 0.11 |
| | B6 OCCUP, GUIDANCE BRIEFS | 1 | 0.19 | 1 | | 0 | 0.0 | 0.0 |
| | B7 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.38 |
| | BB JOB FACT SHEETS | 4 | 0 74 | 3 | 0.45 | 1 | 0.15 | 0.14 |
| | B9 VOCATIONAL BIOGRAPHIES | 0 | 0.0 | 1 | 0.15 | _ | 7.29 | 6.61 |
| | Blo OCCUP, BRIEFS PUBLISHED BY STATE | 41 | 7 59 | 41 | 6.14 | 50 | | 0.59 |
| | BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 3 | 0.56 | 4 | 0.60 | • | 0.58 | |
| | B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 3 | 0 56 | 5 | 0.75 | • | 0.58 | 0.68 |
| | BIS WRITE-UPS BY FURHER STUDENTS | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| | B14 OTHER (OCCUP, BRIEFS AND KITS) | 9 | 1 67 | 12 | 1.80 | ð | 1.17 | 1.59 |
| | C1 CAREER WORLD | 3 | 0.56 | 3 | 0.45 | 3 | 0.44 | 0.45 |
| | C2 DCCUP. IN DEMAND | 7 | 1.30 | 13 | 1.95 | 13 | 1.90 | 1.87 |
| | C3 OCCUP. DUTLOOK QUARTERLY | 26 | 4.81 | 29 | 4.34 | 30 | 4.37 | 4.39 |
| | C4 REAL HORLD | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | C5 CIVIL SERVICE EXAM BULLETINS | 9 | 1 67 | 6 | 0.90 | 12 | 1.75 | 1.23 |
| | C6 OTHER (PERIODICALS) | 12 | 5 55 | 17 | 2.54 | 50 | 2.92 | 2.63 |
| | D1 OPPURTUNITIES IN | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | D2 YOUR CAREER IN | 0 | 0.0 | 0 | 0.0 | 9 | 0.0 | 0.0 |
| | D3 YOUR FUTURE IN | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 0 | 0.0 | 2 | 0.30 | 1 | 0.15 | 0.23 |
| | EL DIRECTORIES OF BUSINESSES | 9 | 1.67 | 7 | 1.05 | 15 | 1.75 | 1.32 |
| | EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 11 | 2.04 | 8 | 1.20 | 7 | 1.02 | 1.22 |
| | E3 OTHER (LIST OF EMPLOYERS) | 5 | 0.93 | 12 | 1.80 | 5 | 0.73 | 1.39 |
| | F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | F2 VOCATIONAL SCHOOL DIRECTORIES | 0 | 0.0 | 2 | 0.30 | 2 | 0.29 | 0.27 |
| | F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF | 0 | 0.0 | 0 | 0.0 | 0 | Q.D | 0.0 |
| | F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 1 | 0.19 | 2 | 0.30 | 3 | 0.44 | 0.33 |
| | 61 CHOICES | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | es coin | 6 | 1 11 | 4 | 0.60 | 5 | 0.73 | 0.68 |
| | 63 CYIS | 7 | 1.30 | 3 | 0.45 | 3 | 0.44 | 0.52 |
| | 64 DISCOVER | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| | 65 GIS | 14 | 2.59 | 11 | 1.65 | 32 | 4.66 | 2.65 |
| | R6 YOUR STATE SYSTEM | 19 | 3.52 | 35 | 5.24 | 57 | 8.31 | 6.03 |
| | | | | | | | ŧ | CONTINUED) |

ERIC 446

-365-

| HAMBER OF OBSERVATIONS | | RATUH1 540 | | RATUME 666 | _ | RATURS 666 | HATL EST |
|---|-------------------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | 79EQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 121 RESOURCE USED FOR QUES RE UP-TO-DATE LOCAL MAGE | AND SALARY INFORM | ATION | | | | | |
| 67 YOUR SCHOOL OR COUNTY SYSTEM | 7 | 1.30 | 1 | 0.15 | 3 | 0.44 | 0.34 |
| 68 OTHER (COMPUTERIZED INFO. SYSTEMS) | 3 | 0.56 | ž | 0.30 | 3 | 0.44 | 0.34 |
| HI TOUR OWN SCHOOL HADE A-V EQUIP. | 0 | 0.0 | t | 0.30 | 1 | 0.15 | 0.23 |
| HE EXTERNALLY PRODUCED A-V EQUIP. | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 9.09 |
| H3 OTHER (AUDIO-VISUAL) | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| IL STATE OR REGIONAL MICROFILM | 51 | 7.44 | 62 | 9.28 | 70 | 10.20 | 9.57 |
| IZ LOCAL MICROFILM | • | 1.67 | 5 | 0.75 | 7 | 1.02 | 0.91 |
| I3 OTHER (MICROFORMS) | 1 | 0.19 | 3 | 0.45 | Z | 0.29 | 0.38 |
| J1 KEY OR HEEDLESORT | 4 | 0.74 | 16 | 2.40 | 5 | 0.73 | 1.74 |
| JE SCORE INTERP GUIDES FOR INVENTORIES | ٥ | 0.0 | 0 | 0.0 | - 0 | 0.0 | 0.0 |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 0 | 0.0 | 5 | 0.30 | 0 | 0.0 | 0.18 |
| K1 COURSES IN CAREER PLANNING | 2 | 0.37 | 0 | 0.0 | 1 | 0.15 | 0.08 |
| KZ OCCUP, INFO, UNITS IN SUBJECT MATTER CLAS | SES 1 | 0.19 | 0 | 0.0 | 3 | 0.44 | 0.15 |
| K3 EXPLORATORY WORK EXPERIENCE | 2 | 0.37 | 0 | 0.0 | 3 | 0.44 | 0.17 |
| K4 CAREER DAYS, SPEAKERS, ETC. | 5 | 0.93 | 13 | 1.95 | 16 | 8.33 | 1.97 |
| KS CAREER CLUBS | Ō | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| K7 JOB SITE YOURS | 4 | 0.74 | 3 | 0.45 | 0 | 0.0 | 0.34 |
| K8 JOB SHADOWING | 0 | 0.0 | 1 | 0.15 | 3 | 0.44 | 0.22 |
| K9 CONFERENCES WITH COMMUNITY REPS | 27 | 5 00 | 22 | 3.29 | 25 | 3.64 | 3.55 |
| KID OTHER (SCHOOL ARRANGED EXPERIENCES) | 3 | 0.56 | 5 | 0.75 | 5 | 0.73 | 0.72 |
| L1 SIMULATIONS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| M1 CONFERENCES WITH COUNSELORS | ż | 0.37 | 5 | 0.75 | 3 | 0.44 | 0.62 |
| M2 ASSISTANCE FROM OTHER STAFF | 0 | 0.0 | 1 | 0.15 | 2 | 0.29 | 0.18 |
| A99 BOUND REFERENCES | i | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| 899 OCCUPATIONAL BRIEFS AND KITS | 0 | 0.0 | 2 | 0.30 | 1 | 0.15 | 0.23 |
| C99 PERIODICALS | ì | 0 19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| D99 SERIES OF BOOKS ON INDIV. DCC. | 5 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | Ō | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | Ō | 0.0 | Ö | 0.0 | 0 | 0.0 | 0.0 |
| 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| H99 AUDIO-VISUAL MATERIALS | ì | 0.19 | ō | 0.0 | 0 | 0.0 | 0.02 |
| 199 mICROFORMS | ō | 0.0 | ō | 0.0 | 0 | 0.0 | 0.0 |
| J99 NON-COMPUTERIZED SORTING MATERIALS | ō | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 0 | 0.0 | ŏ | 0.0 | 0 | 0.0 | 0.0 |
| L99 SIMULATIONS | Ŏ | 0.0 | ŏ | 0.0 | ō | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | ō | 0.0 | ō | 0.0 | Ö | 0.0 | 0.0 |
| NA NOT APPLICABLE | 42 | 7 78 | 57 | 8.53 | 42 | 6.12 | 7.72 |
| DK DON'T KNOH | 40 | 7.41 | 48 | 7.19 | 38 | 5.54 | 6.69 |
| NO RESPONSE | 70 | 12.96 | 90 | 13,47 | 74 | 10.79 | 12.59 |
| ווט אנסרטווטנ | ,, | 42.70 | , • | | | | |

ERIC Full Text Provided by ERIC

| HUMBER OF OBSERVATIONS | = | RATUM1 540 | | RATUME 668 | | RATUMS 686 | NATE EST |
|--|-------------|---------------|--------|---------------|------|---------------|----------|
| ÎTÊMS AMD Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 123 RESOURCE USED FOR QUES RE OCC MAICH HEET STUDENT'S SPE | CIFICATIONS | | | | | | |
| A1 OCCUPATIONAL OUTLOOK MANDBOOK | 106 | 19 63 | 114 | 17 07 | 115 | 16.76 | 17.18 |
| AS DICTIONAPT OF OCCUP. TITLES | 16 | 2 96 | 17 | 2 54 | 13 | 1.90 | 2.38 |
| A3 GUIDE FOR OCCUP, EXPLORATION | 3 | 0 56 | 4 | 0 60 | 2 | 0.29 | 0.50 |
| A4 ENCYCL OF CAREERS AND VOC GUIDANCE | 8 | 1 48 | 13 | 1 95 | 7 | 1.02 | 1.62 |
| AS I CAN BE ANYTHING CAREERS AND COLLEGES FOR YOU | | 0.37 | 1 | 0 15 | 0 | 0.0 | 0.12 |
| AS EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| A7 THE NATIONAL APPRENTICESHIP PROGRAM | 0 | 0 0 | ٥ | 0 0 | 0 | 0.0 | 0.0 |
| AS OCCUP, HANDSOOKS FOR THE MILITARY | 2 | 0 37 | 3 | 0 45 | 1 | 0 15 | 0.35 |
| A9 WORYER TRAIT GROUP GUIDE | 3 | 0 56 | 5 | 0 75 | 4 | 0.58 | 0.68 |
| Ald OTHER (BOUND REFFRENCES) | ì | 0 19 | 4 | 0.60 | 4 | 0.58 | 0.56 |
| B1 B'HAI B'RITH BRIEFS | 0 | 0 0 | 0 | 0 0 | ٥ | 0.0 | 0.0 |
| BE CAREERS, INC. | 4 | 0 74 | 5 | 0.75 | 8 | 1.17 | 0.88 |
| . B3 CATALYST PAMPHLETS | 1 | 0 19 | ō | 0.0 | 0 | 0.0 | 0.02 |
| W B4 CHRONICLE GUIDANCE | 10 | 1 85 | 20 | 2 99 | 23 | 3.35 | 3.00 |
| BS SRA BRIEFS | 9 | 1.67 | 9 | 1 35 | 13 | 1.90 | 1.54 |
| B6 OCCUP GUIDANCE BRIEFS | Ď | 0 0 | ž | 0 30 | 6 | 0.87 | 0.45 |
| B7 GUIDANCE CENTRE MONOGRAPHS | ŏ | 0 0 | ò | 0 0 | ĭ | 0.15 | 0.04 |
| BA JOB FACT SHEETS | 3 | 0.56 | ž | 0 30 | ī | 0.15 | 0.27 |
| B9 VOCATIONAL BIOGRAPHIES | í | 0.19 | 4 | 0 60 | ž | 0 29 | 0.47 |
| BIO OCCUP. BRIEFS PUBLISHED BY STATE | 10 | 1 85 | 18 | 2 69 | à | 1.17 | 2.15 |
| BIL PALPHLETS PREPAREL LY PROFESSIONAL ASSOC. | 0 | 0 0 | 1 | 0 15 | 2 | 0.29 | 0.18 |
| B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 3 | 0 56 | - - | 0.0 | ī | 0.15 | 0.09 |
| B13 WRITE-UPS BY FORMER STUDENTS | ó | 0 0 | ō | 0 0 | ō | 0.0 | 0.0 |
| B14 DTHER (OCCUP, BRIEFS AND KITS) | 6 | 1 11 | 6 | 0 90 | 10 | 1 46 | 1.09 |
| C1 CAREER MORED | 1 | 0 19 | i | 0.15 | i | 0.15 | 0.15 |
| CZ OCCUP. IN DEMAND | ž | 0 37 | i | 0 15 | ī | 0.15 | 0.17 |
| C3 OCCUP. OUTLOOK QUARTERLY | | 0 74 | - | 0 60 | 5 | 0.73 | 0 65 |
| C4 REAL MORLD | i | 0 19 | ì | 0 15 | 0 | 0 0 | 0.11 |
| C5 CIVIL SERVICE EXAM BULLETINS | - 0 | 0 0 | ō | 0.0 | ō | 0.0 | 0.0 |
| C6 OTHER (PERIODICALS) | 2 | | ž | 0 30 | ì | 0.15 | 0.26 |
| DI OPPURTUNITIES IN | 2 | 0 37 | Ď | 0.0 | ō | 0.0 | 0.03 |
| DZ YOUR CAREER IN | Ö | 0 0 | i | 0 15 | ì | 0 15 | 0.14 |
| D3 YOUR FUTURE IN | i | 0 19 | i | 0 15 | ī | 0 15 | 0.15 |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP) | 3 | _ | 2 | 0 30 | ŕ | 0 0 | 0.23 |
| | 0 | 0 0 | 4 | 0.60 | š | 0 44 | 0.50 |
| EL DIRECTORIES OF BUSINESSES | 1 | | 2 | 0.30 | 2 | 0 29 | 0.29 |
| E2 SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 0 | 0 19 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| E3 OTHER (LIST OF EMPLOYERS) | 0 | 0 0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| F1 COLLEGE DIRECTORI'' ARPANGED BY OCCUP. | 5 | 0 0 | 1 | 0.15 | 0 | 0.13 | 0.17 |
| FZ VOCATIONAL SCHOOL L.RECTORIES | 5 | 0 93 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF | 1 | 0 19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| F4 OTHER (EDUCATIONAL "IRECTORIES FOR OCCUPATIONS) | 1 | 0 19 | 1 | 0.15 | U | V. V | 0.11 |

(CONTINUED)

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| NUMBER OF OBSERVATIONS | | RATUH1 540 | - | RATUHZ 668 | | RATUM3 686 | HATL EST |
|---|------------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 123 RESOURCE USED FOR QUES RE OCC WHICH MEET STUDENT'S SPEC | IFICATIONS | , | | | | | |
| 61 CHOICES | 1 | 0 19 | 2 | 0.30 | 1 | 0.15 | 0.24 |
| es coin | 11 | 2 04 | 7 | 1 05 | 12 | 1.75 | 1.35 |
| 63 CVI5 | 6 | 1 11 | 0 | 0 0 | 5 | 0.73 | 0.32 |
| G4 DISCOVER | 3 | 0 56 | 1 | 0 15 | 0 | 0.0 | 0.14 |
| G5 GIS | 35 | 6 48 | 23 | 3 44 | 66 | 9.62 | 5.60 |
| G6 YOUR STATE SYSTEM | 15 | 2 78 | 35 | 5.24 | 48 | 7.00 | 5.56 |
| G7 YOUR SCHOOL OR COUNTY SYSTEM | 3 | 0 56 | 1 | 0 15 | 7 | 1.02 | 0.45 |
| GO OTHER (COMPUTERIZED INFO. SYSTEMS) | 3 | 0 56 | 0 | 0.0 | 3 | 0.44 | 0.18 |
| HI YOUR OWN SCHOOL MADE A-V EQUIP | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| HZ EXTERNALLY PRODUCED A-V EQUIP. | 1 | 0 19 | 7 | 1 05 | 1 | 0.15 | 0.69 |
| H3 OTHER (AUDIO-VISUAL) | 1 | 0 19 | 2 | 0 30 | 0 | 0.0 | 0.20 |
| Il STATE OR REGIONAL MICROFILM | 20 | 3 70 | 33 | 4.94 | 30 | 4.37 | 4.65 |
| IZ LOCAL MICROFILM | 4 | 0 74 | 0 | 0 0 | 2 | 0.29 | 0.15 |
| I3 OTHER (MICROFORMS) | 2 | 0 37 | 0 | 0 0 | 1 | 0.15 | 0.08 |
| J1 KEY OR NEEDLESORT | 7 | 1.30 | 2.2 | 3.29 | 6 | 0.87 | 2.37 |
| JE SCORE INTERP GUIDES FOR INVENTORIES | 3 | 0 56 | 3 | 0 45 | 4 | 0.58 | 0.50 |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 1 | 0 19 | 6 | 0 90 | 7 | 1.02 | 0.87 |
| K1 COURSES IN CAREER PLANNING | 2 | 0 37 | 0 | 0 0 | 2 | 0.29 | 0.12 |
| K2 OCCUP INFO UNITS IN SUBJECT MATTER CLASSES | 5 | 0 93 | 1 | 0 15 | 4 | 0.58 | 0.35 |
| K3 EXPLORATORY WORK EXPERIENCE | 0 | 0 0 | 1 | 0 15 | 1 | 0.15 | 0.14 |
| K4 CAREER DAYS, SPEAKERS, ETC | 5 | 0 93 | 4 | 0 60 | 6 | 0.87 | 0.71 |
| KS CAREER CLUBS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| K7 JOB SITE TOURS | 1 | 0 19 | 3 | 0.45 | Đ | 0.0 | 0.29 |
| K8 JOB SHADOWING | 0 | 0 0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| K9 CONFERENCES WITH COMMUNITY REPS | 7 | 1 30 | 4 | 0.60 | 8 | 1.17 | 0 83 |
| K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 2 | 0 37 | 1 | 0 15 | 3 | (1 44 | 0.26 |
| L1 SIMULATIONS | 0 | 0 0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| M1 CONFERENCES HITH COUNSELORS | 5 | 0 93 | 10 | 1 50 | 7 | 1 02 | 1.30 |
| M2 ASSISTANCE FROM OTHER STAFF | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| A99 BOUND REFERENCES | 2 | 0 37 | 1 | 0 15 | 2 | 0 29 | 0.21 |
| B99 OCCUPATIONAL BRIEFS AND KITS | 0 | 0 0 | 1 | 0 15 | 0 | 0 0 | 0.09 |
| C99 PERIODICALS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| D99 SERIES OF BOOKS ON INDIV. DCC. | 1 | 0 19 | 1 | 0 15 | 0 | 0.0 | 0.11 |
| E99 LIST OF EMPLOYERS | 0 | 0 0 | 0 | 0 0 ' | 0 | 0 0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR DCC | 0 | 0 0 | 1 | 0 15 | 0 | 0 0 | 0.09 |
| G99 COMPUTERIZED INFO. SYSTEMS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| H99 AUDIC-VISUAL MATERIALS | 1 | 0 19 | 0 | 0 0 | 1 | 0.15 | 0.06 |
| I 99 MICPOFORMS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |



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| NUMBER OF OBSERVATIONS | | RATUMI 540 | | RATUMZ 668 | _ | RATUMS 686 | NATE EST |
|---|-----------|---------------|------|---------------|------|---------------|-----------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 12J RESOURCE USED FOR QUES RE OCC MHICH MEET STUDENT'S SPECIA | FICATIONS | j | | | | | |
| J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| L99 SIMULATIONS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| NA NOT APPLICABLE | 34 | 6 30 | 46 | 6 89 | 41 | 5.98 | 6.55 |
| DK DON'T KNOM | 61 | 11 30 | 87 | 13.02 | 85 | 12.39 | 12.66 |
| NO RESPONSE | 86 | 15.93 | 112 | 16 77 | 94 | 13.70 | 15.74 |
| 13A RESOURCE USED TO AROUSE STUDENT INTEREST IN EXPLORING OC | r INFO | | | | | | |
| A1 DCCUPATIONAL DUTLOOK HANDBOOK | 79 | 14 63 | 80 | 11 98 | 80 | 11.66 | 12.10 |
| AS DICTIONARY OF OCCUP. TITLES | 17 | 3.15 | 15 | 2 25 | 11 | 1.60 | 2.13 |
| AS GUIDE FOR OCCUP. EXPLORATION | 11 | 2.04 | 10 | 1 50 | 1 | 0.15 | 1.13 |
| A4 ENCYCL, OF CAREERS AND VOC. GUIDANCE | 11 | 2.04 | 17 | 2 54 | 13 | 1.90 | 2.30 |
| AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG | | 0.19 | 0 | 0 0 | 2 | 0 29 | 0.11 |
| A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | . 0 | | 0 | 0 0 | 0 | 0 0 | 0.0 |
| A7 THE NATIONAL APPRENTICESHIP PROGRAM | 0 | 0 0 | 0 | 0 0 | ٥ | 0.0 | 0.0 |
| AS OCCUP. HANDBOOKS FOR THE MILITARY | 2 | 0 37 | 0 | 0 0 | 0 | 0.0 | 0.03 |
| A9 HORKER TRAIT GROUP GUIDE | 3 | 0.56 | 2 | 0 30 | 9 | 1.31 | 0.63 |
| A10 OTHER (BOUND REFERENCES) | 0 | 0 0 | 5 | 0 75 | 5 | 0.73 | 0.68 |
| B1 B'NAI B'RITH BRIEFS | 1 | 0 19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| B2 CAREERS, INC. | 8 | 1 48 | 14 | 2 10 | 16 | 2.33 | 2.11 |
| B3 CATALYST PAMPHLETS | Ö | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| B4 CHRONICLE GUIDANCE | 10 | 1.85 | 18 | 2.69 | 20 | 2.92 | 2.69 |
| B5 SRA BRIEFS | 13 | 2 41 | 18 | 2 69 | 21 | 3.06 | 2.78 |
| B6 OCCUP. GUIDANCE BRIEFS | | 0 37 | 4 | 0 60 | 1 | 0.15 | 0.44 |
| B7 GUIDANCE CENTRE MONOGRAPHS | ō | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| BB JOB FACT SHEETS | 1 | 0.19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| B9 VOCATIONAL BIOGRAPHIES | 2 | 0.37 | 2 | 0 30 | 6 | 0.87 | 0.48 |
| BIO OCCUP BRIEFS PUBLISHED BY STATE | 3 | 0 56 | 6 | 0 90 | 0 | 0.0 | 0.59 |
| BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 1 | 0 19 | 6 | 0 90 | 1 | 0.15 | 0.60 |
| BIZ PAMPHLETS PREPARED BY PRIVATE BUSINESS | 4 | 0 74 | 0 | 0 0 | 2 | 0.29 | 0.15 |
| BIS WRITE-UPS BY FORMER STUDENTS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| B14 OTHER (OCCUP. BRIEFS AND KITS) | 4 | 0.74 | 3 | 0 45 | 9 | 1.31 | 0.74 |
| C1 CAREER WORLD | 20 | 3 70 | 22 | 3 29 | 18 | 2.62 | 3.12 |
| C2 OCCUP. IN DEMAND | 5 | 0 37 | 3 | 0 45 | 0 | 0.0 | 0.30 |
| C3 OCCUP, DUTLOOK QUARTERLY | Ō | | 2 | 0 30 | 1 | | 0.23 |
| C4 REAL WORLD | 4 | 0.74 | 9 | 1.35 | 4 | 0 58 | 1.06 |
| C5 CIVIL SERVICE EXAM BULLETINS | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 | 0 0 |
| C6 OTHER (PERIODICALS) | 2 | 0 37 | 0 | 0.0 | 5 | 0.29 | 0.12 |
| PR RICHARD LLEUVARRACHER. | _ | | | | | | 6 mi 17 7 |

(CONTINUED)

| NUMBER OF OBSERVATIONS | 51 | RATUM) 540 | | RATUM2 668 | - | RATUM3 686 | NATL EST |
|---|------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND Alternatives | FRFQ | PERCENT | FRFO | PERCENT | EDEG | PERCENT | PERCENT |
| | | LACCINI | | rencent | 7864 | FERGENI | rencent |
| (ITEM CONTINUED) | | | | | | | |
| 13A RESOURCE USED TO AROUSE STUDENT INTEREST IN EXPLORING OCC | INFD | | | | | | |
| D1 OPPURTUNITIES IN | 1 | 0.19 | 5 | 0.75 | Ş | 0.29 | 0.56 |
| DE YOUR CAREER IN | 4 | 0.74 | 3 | 0.45 | 2 | 0.29 | 0.43 |
| D3 YOUR FUTURE IN | 2 | 0 37 | 1 | 0 15 | ž | 0.29 | 0.21 |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 2 | 0.37 | 1 | 0.15 | 0 | 0 0 | 0.12 |
| E1 DIRECTORIES OF BUSINESSES | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| E2 SCHOOL PREPARED LISTS OF EMPLOYERS, ETC E3 OTHER (LIST OF EMPLOYERS) F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. F2 VOCATIONAL SCHOOL DIRECTORIES F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF | 0 | 0.0 | 2 | 0.30 | 1 | 0.15 | 0.23 |
| E3 OTHER (LIST OF EMPLOYERS) | 1 | 0 19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 2 | 0 37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| FZ VOCATIONAL SCHOOL DIRECTORIES | 0 | 0.0 | 3 | 0 45 | 1 | 0.15 | 0.32 |
| | | | 0 | 0 0 | 0 | 0.0 | G. 0 |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0 0 | 1 | 0 15 | 2 | 0.29 | 0.18 |
| G1 CHOICES | 0 | 0 0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| G2 COIN | 9 | 1.67 | 6 | 0 90 | 6 | 0.87 | 0.96 |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) G1 CHOICES G2 COIN G3 CVIS G4 DISCOVER G5 GIS G6 YOUR STATE SYSTEM G7 YOUR SCHOOL OR COUNTY SYSTEM G8 OTHER (COMPUTERIZED INFO SYSTEMS) H1 YOUR OWN SCHOOL MADE A-V EQUIP H2 EXTERNALLY PRODUCED A-V EQUIP H3 OTHER (AUDIO-VISUAL) I1 STATE OR REGIONAL MICROFILM I2 LOCAL MICROFILM I3 OTHER (MICROFORMS) J1 KEY OR NEEDLESORT J2 SCORE INTERP GUIDES FOR INVENTORIES | 8 | 1.48 | 2 | 0.30 | 8 | 1.17 | 0.67 |
| G4 DISCOVER | 4 | 0.74 | 1 | 0.15 | 2 | 0 29 | 0.25 |
| 65 GIS | 27 | 5 00 | 18 | 2.69 | 52 | 7 58 | 4.39 |
| G6 YOUR STATE SYSTEM | 11 | 2 04 | 30 | 4.49 | 52 | 7.58 | 5.22 |
| G7 YOUR SCHOOL OR COUNTY SYSTEM | 4 | 0 74 | 1 | 0.15 | 6 | 0.87 | 0.42 |
| GO OTHER (COMPUTERIZED INFO SYSTEMS) | 0 | 0 0 | 3 | 0.45 | 4 | 0.58 | 0.45 |
| HI YOUR OWN SCHOOL MADE A-V EQUIP | 9 | 1 67 | 2 | 0.30 | 7 | 1.02 | 0.64 |
| HZ EXTERNALLY PRODUCED A-V EQUIP | 29 | 5 37 | 41 | 6 14 | 34 | 4 96 | 5.70 |
| H3 OTHER (AUDIO-VISUAL) | 1 | 0 19 | 3 | 0 45 | 0 | 0 0 | 0.29 |
| Il STATE OR REGIONAL MICROFILM | 14 | 2.59 | 33 | 4.94 | 31 | 4 52 | 4.60 |
| IZ LOCAL MICROFILM | 1 | 0 19 | 0 | 0 0 | 1 | 0.15 | 0.06 |
| I3 OTHER (MICROFORMS) | 0 | 0 0 | 1 | 0 15 | 2 | 0.29 | 0.18 |
| J1 KEY OR NEEDLESORT | 4 | 0 74 | 23 | 3 44 | 6 | 0.87 | 2,41 |
| JE SCORE INTERP GUIDES FOR INVENTORIES | 4 | 0 74 | 14 | 2 10 | 20 | 2.92 | 2.23 |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 1 | 0.19 | 6 | 0.90 | 3 | 0 44 | 0.69 |
| K1 COURSES IN CAREER PLANNING | 20 | 3 70 | 21 | 3 14 | 31 | 4.52 | 3.61 |
| K2 OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 22 | 4 07 | 2.2 | 3.29 | 31 | 4 52 | 3.74 |
| K3 EXPLORATORY WORK EXPERIENCE | 4 | 0 74 | 1 | 0.15 | 8 | 1.17 | 0.51 |
| K4 CAREER DAYS, SPEAKEPS, ETC | 46 | 8 52 | 37 | 5 54 | 49 | 7.14 | 6.29 |
| 5 CAREER CLUBS | 2 | 0.37 | 0 | 0 0 | 0 | 0.0 | 0.03 |
| KE VOLUNTEER SERVICE APRANGED BY SCHOOL | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| KE VOLUNTEER SERVICE APRANGED BY SCHOOL K7 10B SITE TOURS K8 JOB SHADONING K9 CONFERENCES WITH COMMUNITY REPS K10 OTHER (SCHOOL ARRANGED EXPERIENCES) L1 SIMULATIONS | 9 | 1.67 | 9 | 1.35 | 3 | 0.44 | 1.09 |
| K8 JOB SHADOWING | Ò | 0 0 | 1 | 0.15 | 3 | 0.44 | 0.22 |
| K9 CONFERENCES WITH COMMUNITY REPS | 5 | 0 93 | 3 | 0 45 | í | 0.15 | 0.40 |
| K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 5 | 0.93 | á | 1.20 | 11 | 1.60 | 1.30 |
| L1 SIMULATIONS | 2 | 0.73 | 2 | 0.30 | 2 | 0.29 | 0.30 |
| | • | | • | . | • | , | 0.30 |

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| NUMBER OF OBSERVATIONS | | RATUM1 540 | | RATUMZ 668 | - | RATUMS 686 | HATL EST |
|--|------|---------------|------|---------------|----------|---------------|--------------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 13A RESOURCE USED TO AROUSE STUDENT INTEREST IN EXPLORING OCC | INFO | | | | | | |
| M1 CONFERENCES WITH COUNSELORS | 4 | 0.74 | 13 | 1.95 | 15 | 2.19 | 1.91 |
| M2 ASSISTANCE FROM OTHER STAFF | 1 | 0.19 | 3 | 0.45 | 1 | 0.15 | 0.33 |
| A 99 BOUND REFERENCES | 2 | 0 37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| B99 OCCUPATIONAL BRIEFS AND KITS | 0 | 0 0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| C99 PERIODICALS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| D99 SERIES OF BOOKS ON INDIV. OCC. | 0 | 0 0 | 3 | 0.0 | 0 | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| H99 AUDIO-VISUAL MATERIALS | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| I99 MICROFORMS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| J99 MON-COMPUTERIZED SORTING MATERIALS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 2 | 0.37 | 3 | 0 45 | 1 | 0.15 | 0.35 |
| L99 SIMULATIONS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NA NOT APPLICABLE | 9 | 1.67 | 12 | 1.80 | 7 | 1 02 | 1.54 |
| DK DON'T KNOH | 15 | 2.78 | 20 | 2.99 | 11 | 1.60 | 2.55 |
| NO RESPONSE | 51 | 9.44 | 75 | 11.23 | 45 | 6.56 | 9.63 |
| 138 RESOURCE USED TO FAMILIARIZE STUDENT WITH MANY OCCUPATIONS | | | | | | | |
| Al OCCUPATIONAL DUTLOOK HANDBOOK | 120 | 55 55 | 164 | 24 55 | 180 | 26.24 | 24.84 |
| AZ DICTIONARY OF OCCUP. TITLES | 59 | 10.93 | 56 | 8.38 | 55 | 8.02 | 8.49 |
| A3 GUIDE FOR OCCUP. EXPLORATION | 3 | 0 56 | 5 | 0 75 | 2 | 0.29 | 0.59 |
| A4 ENCYCL, OF CAREERS AND VOC. GUIDANCE | 2.3 | 4.26 | 27 | 4 04 | 24 | 3.50 | 3.89 |
| AS I CAN BE ANTTHING: CAREERS AND COLLEGES FOR YOUNG F | | 0.0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| A7 THE NATIONAL APPRENTICESHIP PROGRAM | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| AS OCCUP, HANDBOOKS FOR THE MILITARY | 3 | 0.56 | 1 | 0.15 | 1 | 0.15 | 0.18 0.77 |
| A9 WORKER TRAIT GROUP GUIDE | 3 | 0.56 | 9 | 0.60 | 8 | 1.17 | 0.77 |
| Alo OTHER (BOUND REFERENCES) | 0 | 0.0 | 3 | 0.45 | 0 | 0.0 | 0.27 |
| B1 B'NAI B'RITH BRIEFS | 2 | 0 37 | | 0 0 | 1 | 0.15 | 1.97 |
| B2 CAREERS, INC. | 13 | 2 41 | 14 | 2 10 | 11 | 1.60 0.15 | 0.04 |
| B3 CATALTST PAMPHLETS | 0 | 0 0 | 0 | 0.0 | 1 | 4.23 | 3.91 |
| 84 CHRONICLE GUIDANCE | 16 | 2.96 | 26 | 3.89 | 29 19 | 2.77 | 2.97 |
| 55 SRA POIEFS | 19 | 3.52 | 20 | 2.99 | 19 | 1.31 | 0.81 |
| B6 OCCUP. GUIDANCE BRIEFS | 3 | 0.56 | 4 | 0.60 | 0 | 0.0 | 0.81 |
| B7 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.0 | 0 | 0.0 | 2 | 0.0 | 0.09 |
| BB JOB FACT SHEETS | 0 | 0 0 | 0 | 0.0 0.75 | 5 | 0.29 | 0.04 |
| B9 VOCATIONAL BIOGRAPHIES | ż | 0.37 | 5 | U./5 | , | 0,73 | V. 74 |

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| NUMBI | ER OF OBSERVATIONS | | RATUM1 540 | | RATUMZ 668 | | RATUM3 686 | HATL EST |
|-------------|--|------|---------------|------|---------------|------|---------------|----------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | | | | | |
| 1 38 | RESOURCE USED TO FAMILIARIZE STUDENT WITH MANY OCCUPATIONS | | | | | | | |
| | BIO OCCUP. BRIEFS PUBLISHED BY STATE | 4 | 0.74 | 7 | 1.05 | 2 | 0.29 | 0.79 |
| | BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 2 | 0.37 | 4 | 0.60 | 1 | 0.15 | 0.44 |
| | B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | 813 MRITE-UPS BY FORMER STUDENTS | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | B14 OTHER (OCCUP. BRIEFS AND KITS) | 5 | 0.93 | 8 | 1.20 | 8 | 1.17 | 1.16 |
| | C1 CAREER WORLD | 5 | 0.93 | 2 | 0.30 | 7 | 1.02 | 0.58 |
| | CZ OCCUP. IN DEMAND | 2 | 0 37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| | C3 OCCUP. OUTLOOK QUARTERLY | 3 | 0.56 | 2 | 0 30 | 3 | 0.44 | 0.36 |
| | C4 REAL WORLD | 1 | 0.19 | 5 | 0.75 | 1 | 0.15 | 0.51 |
| | CS CIVIL SERVICE EXAM BULLETINS | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| 1 | C6 OTHER (PERIODICALS) | 2 | 0 37 | 1 | 0.15 | 0 | 0.0 | 0.12 |
| 37 | D1 DPPURTUNITIES IN | 0 | 0 0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| | DE YOUR CAREER IN | 1 | 0 19 | 1 | | 2 | 0.29 | 0.20 |
| 1 | D3 YOUR FUTURE IN | 0 | 0.0 | 1 | 0.15 | 2 | 0.29 | 0.18 |
| | D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 0 | 0 0 | 1 | | 0 | 0.0 | 0.09 |
| | E1 DIRECTORIES OF BUSINESSES | 1 | | 0 | 0 0 | 1 | 0 15 | 9.06 |
| | EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 | 0.0 |
| | E3 OTHER (LIST OF EMPLOYERS) | 0 | | 2 | 0.30 | 2 | 0.29 | 0.27 |
| | F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 2 | | 0 | 0 0 | 0 | 0 0 | 0.03 |
| | F2 VOCATIONAL SCHOOL DIRECTORIES | 2 | | 5 | 0 75 | Ź | 0.29 | 0.57 |
| | F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| | F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0 0 | Ż | 0 30 | 1 | 0 15 | 0.23 |
| | G1 CHOICES | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | GS COIN | 2 | 0 37 | 2 | 0 30 | 3 | 0.44 | 0.35 |
| | 63 CV15 | 3 | 0.56 | 1 | 0.15 | 7 | 1.02 | 0.45 |
| | G4 DISCOVER | 2 | 0.37 | 0 | 0 0 | 1 | 0.15 | 0.08 |
| | G5 GIS | 14 | 2.59 | 10 | 1 50 | 33 | 4.81 | 2.61 |
| | G6 YOUR STATE SYSTEM | 6 | 1 11 | 18 | 2.69 | 2.2 | 3.21 | 2.71 |
| | G7 YOUR SCHOOL OR COUNTY SYSTEM | 3 | 0.56 | 2 | 0.30 | 4 | 0.58 | 0.41 |
| | G8 OTHER (COMPUTERIZED INFO SYSTEMS) | 1 | 0.19 | 2 | 0 30 | 3 | 0.44 | 0.33 |
| | HI YOUR OWN SCHOOL HADE A-V EQUIP. | 3 | 0 56 | 0 | 0.0 | 4 | 0.58 | 0.23 |
| | HZ EXTERNALLY PRODUCED A-V EQUIP. | 50 | 3.70 | 26 | 3.89 | 27 | 3.94 | 3.89 |
| | H3 OTHER (AUDIO-VISUAL) | 3 | 0.56 | 0 | 0.0 | 1 | 0.15 | 0.09 |
| | IL STATE OR REGIONAL MICROFILM | 11 | 2.04 | 41 | 6 14 | 17 | 2.48 | 4.65 |
| | IZ LOCAL MICROFILM | 5 | 0 37 | 0 | 0 0 | 0 | 0.0 | 0 03 |
| | 13 OTHER (MICROFORMS) | 1 | 0 19 | 0 | 0 0 | 1 | 0.15 | 0.06 |
| | J1 KEY OR NEEDLESOPT | 1 | 0 19 | 12 | 1.80 | 2 | 0.29 | 1.19 |
| | JE SCORE INTERP GUIDES FOR INVENTORIES | 1 | 0.19 | 2 | 0.30 | 5 | 0.73 | 0.42 |
| | J3 OTHER (NOW COMPUTER SORTING MATERIALS) | 1 | 0 19 | 2 | 0.30 | 1 | 0.15 | 0.24 |
| | | | | | | | | |

461

(CONTINUED)

ERIC Full Text Provided by ERIC

| HUMBER OF OBSERVATIONS | - | RATUM1 540 | | RATUM2 568 | | RATUM3 686 | HATL EST |
|--|-------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEH CONTINUED) | | | | | | | |
| 138 RESOURCE USED TO FAMILIARIZE STUDENT WITH MANY OCCUPATIONS | | | | | | | |
| K1 COURSES IN CAREER PLANNING | 19 | 3.52 | 5.0 | 2.99 | 28 | 4.08 | 3.37 |
| K2 OCCUP, INFO. UNITS IN SUBJECT MATTER CLASSES | 21 | 3.89 | 26 | 3.89 | 37 | 5.39 | 4.35 |
| K3 EXPLORATORY WORK EXPERIENCE | 5 | 0.93 | 0 | 0 0 | 0 | 0.0 | 0.08 |
| KA CAREER DAYS, SPEAKERS, ETC. | 39 | 7 22 | 26 | 3 89 | 40 | 5.83 | 4.78 |
| KS CAREER CLUBS | 1 | 0 19 | 1 | 0 15 | 0 | 0.0 | 0.11 |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| K7 JOB SITE TOURS | 3 | 0.56 | 5 | 0 75 | 5 | 0.29 | 0.59 |
| K8 JOB SHADOWING | 0 | 0.0 | 0 | 0 0_ | 1 | 0.15 | 0.04 |
| K9 CONFERENCES WITH COMMUNITY REPS | 2 | 0.37 | 1 | 0 15 | 2 | 0.29 | 0.21 |
| K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 4 | 0 74 | 1 | 0.15 | 9 | 1.31 | 0.56 |
| LI SIMULATIONS | 4 | 0.74 | 4 | 0.60 | 0 | 0.0 | 0.43 |
| M1 CONFERENCES WITH COUNSELORS | 3 | 0 56 | 4 | 0 60 | • | 0.58 | 0.59 |
| M2 ASSISTANCE FROM OTHER STAFF | 0 | 0.0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| A99 BOUND REFERENCES | 3 | 0.56 | 1 | 0 15 | 0 | 0.0 | 0.14 |
| 899 OCCUPATIONAL BRIEFS AND KITS | 1 | 0.19 | 5 | 0 30 | 0 | 0.0 | 0.20 |
| C99 PERIODICALS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| D99 SERIES OF BOOKS ON INDIV. OCC. | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0 0 | 0 | 0.0 | | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| 699 COMPUTERIZED INFO. SYSTEMS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| H99 AUDID-VISUAL MATERIALS | 1 | 0 19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| I99 MICROFORMS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 1 | 0 19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| L99 SIMULATIONS | 0 | 0.0 | 0 | 0.0 | 0 | 5.0 | 0.0 |
| MAM PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| NA NOT APPLICABLE | 6 | 1.11 | 4 | 0.60 | 9 | 1.31 | 0.86 |
| DK DON'T KNOM | 12 | 2.22 | 15 | 2.25 | | 0.29 | 1.64 |
| NO RESPONSE | 45 | 8.33 | 68 | 10.18 | 38 | 5.54 | 8.58 |
| 13C RESOURCE USED TO GIVE DETAILED INFO ABOUT A FAMILIAR OCCUP | ATION | | | | | | |
| Al OCCUPATIONAL OUTLOOK HANDBOOK | 107 | 19.81 | 107 | 16 02 | 150 | 17.49 | 16.79 |
| AZ DICTIONARY OF DCCUP. TITLES | 34 | 6.30 | 33 | 4.94 | 32 | 4.66 | 4.97 |
| A3 GUIDE FOR OCCUP, EXPLORATION | 7 | 1.30 | 3 | 0.45 | 1 | 0.15 | 0.43 |
| A4 ENCTCL, OF CAREERS AND VOC. GUIDANCE | 2.5 | 4.07 | 25 | 3.74 | 17 | 2.48 | 3.38 |
| AS I CAN BE ANYTHING: CAREERS AND COLLEGES FOR YOUNG H | . 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| AT THE NATIONAL APPRENTICESHIP PROGRAM | 1 | 0.19 | 0 | 0 0 | 0 | 0.0 | 9.05 |
| AS OCCUP. HANDBOOKS FOR THE MILITARY | 1 | 0.19 | O | 0.0 | 1 | 0.15 | 0.06 |

(CONTINUED)

467

| IX RESOURCY USED TO GIVE DETAILED INFO ABOUT A FAMILIAN OCCUPATION AM MONKER TRAIT GROUP GUIDE | HAPMER OF OBSERVATIO | NS | \$ T | RATUMI 540 | 31 | RATUM2 668 | | RATUMS 686 | MATL EST |
|--|----------------------|--|-------------|---------------|------|---------------|------|---------------|----------|
| 13.2 RESOURCY USED TO GIVE DETAILED INFO ABOUT A FAMILIAR OCCUPATION A PUMPRER TRAIT GROUP GUIDE 1 0.15 A PUMPRER TRAIT GROUP GUIDE 2 0.37 3 0.30 1 0.15 A PUMPRER TRAIT GROUP GUIDE 2 0.37 3 0.45 3 0.46 B I B INAI B TRITH BRIEFS 0 0.0 0 0 0 0 2 0.29 B I C IT TRAIT INC. 13 2.41 16 2.40 14 2.00 B I C ATALTSI PAMPHLETS 0 0 0 0 0 0 0 0 1 0.15 B A CHRONICIE GUIDANCE 330 5.56 57 8.53 64 9.33 B S SRA BRIEFS 15 2 78 21 3.14 17 2.46 B OCCUP BUIDANCE BRIEFS 2 0.37 6 0.90 7 1.02 B OCCUP SUIDANCE BRIEFS 2 0.37 1 0.15 3 0.44 B B JOB FACT SHEETS 2 0.37 1 0.15 3 0.44 B B JOB FACT SHEETS 2 0.37 4 0.60 9 1.31 B B OCCUP BRIEFS PRINCISCO 2 0.37 4 0.60 9 1.31 B B OCCUP BRIEFS PRINCISCO 2 0.37 4 0.60 9 1.31 B B OCCUP BRIEFS PRINCISCO 2 0.37 4 0.60 9 1.31 B B OCCUP BRIEFS PRINCISCO 2 0.37 4 0.60 9 1.31 B B OCCUP BRIEFS PRINCISCO 2 0.37 4 0.60 9 1.31 B B OCCUP BRIEFS PRINCISCO 2 0.37 3 0.75 3 0.44 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.40 9 1.31 B B OCCUP BRIEFS PRINCISCO 3 0.00 0 0.00 1 0.15 C C CCUP IN OELANCO 3 0.00 0 0.00 0 0.00 0 0.00 C C CCUP IN OELANCO 3 0.00 0 0.00 0 0.00 0 0.00 B OCCUP BRIEFS 3 0.00 | | | FREQ | PERCENT | FREQ | FERCENT | FREQ | PERCENT | PERCENT |
| AP MORKER TRAIT GROUP GUIDE A10 OTHER (BOURD BETERECES) A10 OTHER (BOURD BETERECES) A10 OTHER (BOURD BETERECES) B1 B'INIT B'RITH BRIEFS O 0 0.0 0 0.0 2 0.29 B2 C/T-FRS, INC B3 CATALTST PAHPHLETS O 0 0.0 0 0.0 14 2.06 B3 CATALTST PAHPHLETS O 0 0 0 0 0.0 14 2.06 B3 CATALTST PAHPHLETS O 0 0 0 0 0.0 14 2.06 B4 CHRONICLE GUIDANCE B5 SAR BRIFTS B6 OCCUP, BUIDANCE BRIEFS B7 GUIDANCE CENTRE HONOGRAPHS C 0 37 6 0.90 7 1.02 B7 GUIDANCE CENTRE HONOGRAPHS O 0 0 0 1 0.15 3 0.44 B8 JOB FACT SHEETS Z 0 37 6 0.90 7 1.02 B7 GUIDANCE DET PROFESSIONAL ASSOC. B1 B10 OCCUP, BRIEFS PUBLISHED BT STATE B10 OCCUP, BRIEFS PUBLISHED BT PRIVATE BUSINESS D11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. B12 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. B13 WOITE-LUPB BY FORMER STUDENTS D14 B18 WITE-LUPB BY FORMER STUDENTS D15 COCCUP, BRIEFS AND KITS) B10 OCCUP, BRIEFS AND KITS) D17 OTHER (OCCUP, BRIEFS AND KITS) C 0.37 3 0.45 C 0.37 3 0.45 C 0.37 3 0.45 C 0.37 3 0.45 C 0.00 C | (ITEN CONTINUED |) | | | | | | | |
| A10 OTHER (BOUND REFERENCES) B B*NAL PSITH BRIEFS 0 0.0 0 0.0 2 0.29 BZ CJT-FRS, INC. B3 CATALYST FAMHLETS 0 0.0 0 0.0 1 0.15 B4 CHRONICLE GUIDANCE 30 5.56 57 8.53 64 9.33 B5 SRA BRITF3 15 2.78 21 3.14 17 2.48 B6 OCCUP, SUIDANCE BRIEFS 2 0.37 6 0.90 7 1.02 B7 GUIDANCE CENTRE MONOGRAPHS 2 0.37 1 0.15 4 0.58 B9 VOCATIONAL BIOGRAPHIES 2 0.37 1 0.15 4 0.58 B9 VOCATIONAL BIOGRAPHIES 2 0.37 1 0.15 4 0.58 B1 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. 4 0.74 19 2.84 18 2.62 B12 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. 5 1 0.93 12 1.00 12 1.75 B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. 6 1.0 19 1 0.15 0 0.0 B7 OTHER (OCCUP, BRIEFS AND KITS) 1 0.19 1 0.15 0 0.0 C2 OCCUP, DINITIONAL BIOGRAPH C3 DISTORMEN C4 REAL JORLD C5 CIVIL SERVICE EXAM BULLETINS 0 0 0 0 0 0 1 0.15 C6 OTHER (PERIODICALS) 1 0.19 0 0.0 1 0.15 C6 OTHER (PERIODICALS) 1 0.19 1 0.15 C6 OTHER (PERIODICALS) 1 0.19 1 0.15 C7 OUR PUTUPF IN | 13C RESOURCE USED | TO GIVE DETAILED INFO ABOUT A FAMILIAR OCC | UPATION | | | | | | |
| B1 B'NAI B'RITH BRIEFS B2 CIT-ERS, IMC. B3 CATALYST PAMPHLETS C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | A9 WORKER | TRAIT GROUP GUIDE | 1 | 0.19 | 2 | 0.30 | 1 | 0.15 | 0.24 |
| BZ CAT_TRS. TNC. | Ale OTHER | (BOUND REFERENCES) | 2 | 0.37 | 3 | 0.45 | 3 | 0.44 | 0.44 |
| B3 CATALIST PAMPHLETS B4 CHRONICLE GUIDANCE B5 SRA BRIF73 B5 SRA BRIF73 B6 CCUP. GUIDANCE BRIFFS B6 OCCUP. GUIDANCE BRIFFS B7 GUIDANCE CENTRE HONOGRAPHS C7 GUIDANCE CENTRE HONOGRAPHS C8 B7 GUIDANCE CENTRE HONOGRAPHS C9 B7 GUIDANCE CENTRE HONOGRAPHS C9 B7 GUIDANCE CENTRE HONOGRAPHS C9 B7 GUIDANCE CENTRE HONOGRAPHS C9 B8 J06 FACT SHEETS C9 D37 L 0.15 A 0.56 B8 J06 FACT SHEETS C9 D37 L 0.15 A 0.56 B8 J06 FACT SHEETS C9 D37 L 0.15 A 0.56 B8 J06 FACT SHEETS C9 D37 L 0.15 A 0.56 B1 B9 VOCATIONAL BIDGRAPHIES C9 D37 L 0.15 A 0.56 B10 OCCUP. BRIFFS PUBLISHED BT STATE C9 D37 L 0.15 A 0.56 B10 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. C9 D37 L 0.15 L 0.15 L 0.15 B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. C9 D37 L 0.15 L 0.15 L 0.15 B12 PAMPHLETS PREPARED BY BRIVATE BUSINESS C9 D37 L 0.15 L 0.15 L 0.15 B13 MBITE-UP3 BY FORHER STUDENTS D1 D19 L 0.15 L 0.0 L 0.15 B13 MBITE-UP3 BY FORHER STUDENTS D1 D19 L 0.15 L 0.0 L 0.0 L 0.56 C1 JABEER MORLD C1 JABEER MORLD C2 D37 J 0.30 J 0.44 C4 REAL MORLD C3 D6CUP. D4TLOOK QUARTERLY C5 COULD IN DELIAND C5 CIVIL SERVICE EXAM BULLETINS D1 D19 L 0.15 L 0.15 C5 CIVIL SERVICE EXAM BULLETINS D1 D19 L 0.15 L 0.15 C5 CIVIL SERVICE EXAM BULLETINS D1 D19 L 0.15 L 0.15 C5 CIVIL SERVICE EXAM BULLETINS D1 D19 L 0.15 L 0.15 D1 D70 D70 D70 D70 D70 D70 D70 D70 D70 D70 | B1 B'NAI B | 'RITH BRIEFS | 0 | 0.0 | 0 | 0.0 | 2 | 0.29 | 0.09 |
| BA CHRONICLE GUIDANCE BA SAR BRIF7S B5 SAR BRIF7S B6 OCCUP. GUIDANCE CRIFES C 0 37 6 0.90 7 1.02 B7 GUIDANCE CENTRE MONGRAPMS C 0 0.0 1 0.15 3 0.44 BB JOB FACT SHREETS C 0.37 1 0.15 3 0.44 BB JOB FACT SHREETS C 0.37 4 0.60 9 1.31 BB 0 VOCATIONAL BIOGRAPHIES C 0.37 4 0.60 9 1.31 BB 10 OCCUP. BRIFEFS PUBLISHED BT STATE D 0.93 12 1.60 12 1.75 B11 PAMPHLETS PREPARED BT PROFESSIONAL ASSOC. 4 0.74 19 2.64 18 2.62 B12 PAMPHLETS PREPARED BT PRIVATE BUSINESS C 0.37 5 0.75 3 0.44 B13 MBITE-UPS BT FORMER STUDENTS B10 FAMPHLETS PREPARED BT PRIVATE BUSINESS C 0.37 5 0.75 3 0.44 B15 MBITE-UPS BT FORMER STUDENTS B1 0.19 6 1.20 4 0.56 CL LAREER MORLD C 0.30 CUP. DITLOM QUARTERLY C 0.37 2 0.30 3 0.45 C 0.00 1 0.15 C 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | BE CITTERS | , INC. | 13 | 2.41 | 16 | 2.40 | 14 | 2.04 | 2.29 |
| BS SAN BRITE'S 15 2 78 21 314 17 2.48 | B3 CATALYS | T PAMPHLETS | 0 | 0 0 | 0 | 0.0 | 1 | 0 15 | 0.04 |
| B6 DECUP. GUIDANCE BRIEFS 2 0 37 6 0.96 7 1.02 | 84 CHRONIC | ! E GUIDANCE | 30 | 5.56 | 57 | 8.53 | 64 | 9.33 | 8.51 |
| B7 GUIDANCE CENTRE MONOGRAPMS 0 0.0 1 0.15 3 0.46 | 85 SRA BRI | F 7 3 | 15 | 2 78 | 51 | 3.14 | 17 | 2.48 | 2.90 |
| B7 GUIDANCE CENTRE MONOGRAPMS 0 0.0 1 0.15 3 0.46 | B6 OCCUP. | GUIDANCE BRIEFS | 2 | 0 37 | 6 | 0.90 | 7 | 1.02 | 0.89 |
| B9 VOCATIONAL BIOGRAPHIES | | | 0 | 0.0 | 1 | 0.15 | 3 | 0.44 | 0.22 |
| B10 OCCUP. BRIEFS PUBLISHED BT STATE 5 0.93 12 1.80 12 1.75 B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. 4 0.74 19 2.64 18 2.62 B12 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. 5 0.37 5 0.75 3 0.44 B13 HRITE-UPS BY FORMER STUDENTS 1 0.19 1 0.15 0 0.0 B1- OTHER (OCCUP. BRIEFS AND KITS) 1 0.19 8 1 20 4 0.58 CL LAREER HORLD 2 0.37 3 0.45 0 0.0 C2 OCCUP 1N DELAND 3 0.56 0 0 0 0 1 0.15 C3 OCCUP. DISTLOW QUARTERLY 2 0.37 2 0.30 3 0.44 C4 REAL HORLD 1 0.19 0 0.0 1 0.15 C5 CIVIL SERVICE EXAM BULLETINS 0 0 0 0 0 0 0 0.0 1 0.15 C6 OTHER (PERIODICALS) 1 0.19 0 0.0 1 0.15 C6 OTHER (PERIODICALS) 1 0.19 0 0 0 0 2 0.29 D1 OPPURTUNITIES IN . 9 1 67 9 1 35 15 2.19 D2 YOUR CARCER IN 7 1 30 11 1.65 7 1.02 D3 YOUR FUTUPE IN 1 1 0.19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 88 JOS FAC | T SHEETS | 2 | 0.37 | 1 | 0.15 | 4 | 0.58 | 0.30 |
| B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. 4 0 74 19 2.84 18 2.62 B12 PAMPHLETS PREPARED BT PRIVATE BUSINESS 2 0 37 5 0.75 3 0.44 B13 MRITE-UPS BY FORMER STUDENTS 1 0 19 1 0.15 0 0.0 B7 OTHER (OCCUP, BRIEFS AND KITS) 1 0.19 8 1 20 4 0.58 C1 _AREER MORLD 2 0.37 3 0.45 0 0.0 C2 OCCUP 1N DELIAND 3 0.56 0 0 0 1 0.15 C3 OCCUP, DITLOOK QUARTERLY 2 0.37 2 0.30 3 0.45 C4 REAL MORLD 1 0.15 0 0.0 1 0.15 C5 CIVIL SERVICE EXAM BULLETINS 0 0 0 0 0 0 0 0 1 0.15 C5 CIVIL SERVICE EXAM BULLETINS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | B9 VOCATIO | NAL BIOGRAPHIES | 2 | 0.37 | 4 | 0.60 | 9 | 1.31 | 0.80 |
| B12 PAMPHLETS PREPARED BT PRIVATE BUSINESS 2 0 37 5 0.75 3 0.44 | 🖒 Ble OCCUP. | BRIEFS PUBLISHED BY STATE | 5 | 0.93 | 12 | 1.80 | 12 | 1.75 | 1.70 |
| B15 MRITE-UPS BY FORMER STUDENTS 1 0 19 1 0.15 0 0.0 B7' OTHER (OCCUP. BRIEFS AND KITS) 1 0.19 8 1 20 4 0.58 C1 LAREER MORLD 2 0.37 3 0.45 0 0.0 C2 OCCUP 1N DEHAND 3 0.56 0 0 0 0 1 0.15 C3 OCCUP. DITLOOK QUARTERLY 2 0.37 2 0.30 3 0.44 C4 REAL MORLD 1 0.19 0 0.0 1 0.15 C5 CIVIL SERVICE EXAM BULLETINS 0 0 0 0 0 0.0 1 0.15 C6 OTHER (PERIODICALS) 1 0 19 0 0 0.0 1 0.15 C6 OTHER (PERIODICALS) 1 0 19 0 0 0 0 2 0.29 D1 OPPURTUNITIES IN | B11 PAMPHL | ETS PREPARED BY PROFESSIONAL ASSOC. | 4 | 0 74 | 19 | 2.84 | 18 | 2.62 | 2.59 |
| B? OTHER (OCCUP. BRIEFS AND KITS) C. JAREER HORLD C. C. COCUP IN DELIAND C. C. DOCCUP. IN DELIAND C. DOCCUP. DINTLOOK QUARTERLY C. C. C. C. C. C. C. C. C. C. C. C. C. C | B12 PAMPHL | ETS PREPARED BY PRIVATE BUSINESS | 5 | 0 37 | 5 | 0.75 | 3 | 0.44 | 0.62 |
| CAL CAREER MORLD C2 OCCUP IN DELIAND C3 OCCUP, DIFLOM QUARTERLY C4 REAL MORLD C5 OCCUP, DIFLOM QUARTERLY C6 REAL MORLD C7 OCCUP, DIFLOM QUARTERLY C6 REAL MORLD C7 OCCUP, DIFLOM QUARTERLY C8 REAL MORLD C9 OCCUP, DIFLOM QUARTERLY C9 OCCUP, | BIS WRITE- | UPS BY FORMER STUDENTS | 1 | 0 19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| C2 OCCUP IN DELAND C3 OCCUP, DUITLOOK QUARTERLY C4 REAL HORLD C5 CIVIL SERVICE EXAM BULLETINS C6 OTHER (PERIODICALS) C7 OCTUP LAND C8 OTHER (PERIODICALS) C8 OTHER (PERIODICALS) C9 OTHER (PER | B2" OTHER | (OCCUP, BRIEFS AND KITS) | 1 | 0.19 | 8 | 1 20 | 4 | 0.58 | 0.92 |
| C3 OCCUP. DITLOOK QUARTERLY C4 REAL HORLD C5 CIVIL SERVICE EXAM BULLETINS C6 OTHER (PERIODICALS) C7 OTHER (PERIODICALS) C8 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (PERIODICALS) C9 OTHER (SEL SOF BOOKS ON INDIVIDUAL OCCUP.) C9 OTHER (| CA _AREER | WORLD | 2 | 0.37 | 3 | 0.45 | 0 | 0.0 | 0.30 |
| C4 REAL HORLD C5 CIVIL SERVICE EXAM BULLETINS C6 OTHER (PERIODICALS) C7 COTHER (PERIODICALS) C8 COTHER (PERIODICALS) C9 COTHER | CZ OCCUP | IN DELAND | 3 | 0 56 | 0 | 0 0 | 1 | 0.15 | 0 7 1 |
| C5 CIVIL SERVICF EXAM BULLETINS | C3 OCCUP. | OUTLOOK QUARTERLY | 2 | 0.37 | 2 | 0.30 | 3 | 0.44 | قد . با |
| C6 OTHER (PERIODICALS) 1 0 19 0 0 0 2 0.29 01 OPPURTUNITIES IN | C4 REAL HO | RLD | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| 01 OPPURTUNITIES IN | C5 CIVIL S | ERVICE EXAM BULLETINS | 0 | 0 0 | 0 | 0.0 | 1 | 0 15 | 0.04 |
| D2 YOUR CARTER IN | C6 OTHER (| PERIODICALS) | 1 | 0 19 | 0 | 0 0 | 2 | 0.29 | 0.11 |
| D3 YOUR FUTUPF IN 11 2 04 6 0 90 16 2.33 D4 OTHE; (SEL S OF BOOKS ON INDIVIDUAL OCCUP.) 1 0 19 1 0.15 2 0 29 E1 DIRECTORIES OF BUSINESSES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | D1 OPPURTU | NITIES IN | 9 | 1 67 | 9 | 1 35 | 15 | 2.19 | 1.63 |
| D4 OTHE; (SEF. S OF BOOKS ON INDIVIDUAL OCCUP.) E1 DIRECTORIES OF BUSINESSES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | D2 YOUR CA | REER IN | 7 | 1 30 | 11 | 1.65 | 7 | 1.02 | 1.42 |
| E1 DIRECTORIES 7F BUSINESSES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | D3 YOUR FU | TUPFIN | 11 | 2 04 | 6 | 0 90 | 16 | 2.33 | 1.44 |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. 6 1 11 3 0 45 4 0.58 E3 OTHER (LIST OF EMPLOYERS) 1 0.19 2 0.30 1 0.15 F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. 0 0 0 0 1 0.15 0 0.0 F2 VOC: IONAL SCHOOL DIRECTORIES 1 0 19 3 0.45 0 0 0 F3 A JOB TRAINIG DIRECT, FOR YOUR STAFT 0 0.0 1 0.15 0 0.0 F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) 0 0.0 1 0.15 0 0.0 G1 CHOICES 0 0.0 0 0 0 0 0.0 G2 CCIN 9 1.67 6 0.90 6 0.87 G3 CVIS 2 0.37 1 0.15 3 0.44 G4 DISCOVER | D4 OTHE: (| SEF. 'S OF BOOKS ON INDIVIDUAL OCCUP.) | 1 | 0 19 | 1 | 0.15 | 2 | 0 29 | 0.20 |
| E3 OTHER (LIST OF EMPLOYERS) 1 0.19 2 0.30 1 0.15 F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. 0 0 0 0 1 0.15 0 0.0 F2 VOC. IONAL SCHOOL DIRECTORIES 1 0 19 3 0.45 0 0 0 F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF 0 0.0 1 0.15 0 0.0 F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) 0 0.0 1 0.15 0 0.0 G1 CHOICES 0 0.0 0 0 0 0 0.0 G2 CCIN 9 1.67 6 0.90 6 0.87 G3 CVIS 2 0.37 1 0.15 3 0.44 G4 DISCOVER | E1 DIRECTO | RIES OF BUSINESSES | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. 0 0 0 0 1 0.15 0 0.0 F2 VOC. IONAL SCHOOL DIRECTORIES 1 0 19 3 0.45 0 0 0 0 F3 A JOB TRAINIG DIRECT. FOR YOUR STAFT 0 0.0 0 1 0.15 0 0.0 F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) 0 0.0 1 0.15 0 0.0 61 CHOICES 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | EZ SCHOOL | PPEPARED LISTS OF EMPLOYEPS, ETC. | 6 | 1 11 | 3 | 0 45 | 4 | 0.58 | 0.55 |
| F2 VOC: IONAL SCHOOL DIRECTOPIES 1 0 19 3 0.45 0 0 0 0 F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF 0 0.0 0 1 0.15 0 0.0 F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) 0 0.0 1 0.15 0 0.0 61 CHOICES 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | E3 OTHER (| LIST OF EMPLOYERS) | 1 | 0.19 | 2 | 0.30 | 1 | 0.15 | 0.24 |
| F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF 0 0.0 0 1 0.15 0 0.0 F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) 0 0.0 1 0.15 0 0.0 61 CHOICES 0 0.0 0 0 0 0 0 0 0.0 62 CCIN 9 1.67 6 0.90 6 0.87 63 CVIS 2 0.37 1 0.15 3 0.44 64 DISCOVER | F1 COLLEGE | DIRECTORIES ARRANGED BY OCCUP. | 0 | 0 0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) 0 0.0 1 0.15 0 0.0 61 CHOICES 0 0.0 0 0 0 0 0 0 0.0 62 CCIN 9 1.67 6 0.90 6 0.87 63 CVIS 2 0.37 1 0.15 3 0.44 64 DISCOVER | F2 VOC.: 10 | NAL SCHOOL DIRECTOPIES | 1 | 0 19 | 3 | 0.45 | 0 | 0 0 | 0.29 |
| G1 CHOICES 0 0.0 0 0 0 0.0 G2 CCIN 9 1.67 6 0.90 6 0.87 G3 CVIS 2 0.37 1 0.15 3 0.44 G4 DISCOVER 2 0.37 0 0.0 0 0.0 | F3 A J08 T | RAINIG DIRECT, FOR YOUR STAFF | 0 | 0.0 | 1 | 0 15 | Ó | 5.0 | 0.09 |
| G2 CCIN 9 1.67 6 0.90 6 0.87 G3 CVIS 2 0.37 1 0.15 3 0.44 G4 DISCOVER 2 0.37 0 0.0 0 0.0 | F4 OTHER (| EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0 09 |
| G2 CCIN 9 1.67 6 0.90 6 0.87 G3 CVIS 2 0.37 1 0.15 3 0.44 G4 DISCOVER 2 0.37 0 0.0 0 0.0 | | | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| G3 CVIS 2 0 37 1 0.15 3 0.44 G4 DISCOVER 2 0.37 0 0.0 0 0.0 | | | 9 | 1.67 | 6 | 0.90 | 6 | 0.87 | 0.96 |
| 64 DISCOVER 2 0.37 0 0.0 0 0.0 | | | 2 | 0 37 | 1 | 0.15 | 3 | 0.44 | 0.26 |
| | | R | _ | | _ | | ō | | 0.03 |
| G5 GTS 26 4,81 12 1 80 40 5,83 | | | _ | | 12 | 1 80 | 40 | | 3.30 |
| ## 1 1 | | ATE SYSTEM | | | | | | | 4.33 |

ERIC

| HUMB | ER OF DESERVATIONS | | RATUM1 540 | | RATUM2 668 | | RATUM3 686 | HATL EST |
|------|---|----------|---------------|----------|---------------|------|---------------|--------------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | | | | | |
| 130 | RESOURCE USED TO GIVE DETAILED INFO ABOUT A FAMILIAR OC | CUPATION | | | | | | |
| 1,74 | 67 YOUR SCHOOL OR COUNTY SYSTEM | 5 | 0 93 | 1 | 0 15 | 2 | 0.29 | 0.26 |
| | GO OTHER (COMPUTERIZED INFO. SYSTEMS) | 3 | 0 56 | 0 | 0 0 | 0 | 0.0 | 0.05 |
| | | 1 | 0 19 | 1 | 0 15 | 0 | 6.0 | 0.11 |
| | H1 YOUR OMN SCHOOL MADE A-V EQUIP. H2 EXTERNALLY PRODUCED A-V EQUIP. H3 OTHER (AUDIO-VISUAL) I1 STATE OR REGIONAL HICROFILM | 7 | 1 30 | 7 | 1 05 | 9 | 1.31 | 1.15 |
| | HI OTHER (AUDIO-VISUAL) | 1 | 0 19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| | TI STATE OF REGIONAL MICROFILM | 17 | 3 15 | 47 | 7 04 | 31 | 4.52 | 5.91 |
| | IZ LOCAL MICROFILM | 2 | 0 37 | 0 | 0 0 | 0 | 0.0 | 0.03 |
| | I3 OTHER (MICROFORMS) | 1 | 0 19 | 2 | 0 30 | 1 | 0.15 | 0.24 |
| | JI KEY OR NEEDLESORT | 0 | 0 0 | 6 | 0.70 | 0 | 0.0 | 0.54 |
| | JE SCORE INTERP GUIDES FOR INVENTORIES | 0 | 0 0 | 0 | J. 0 | 0 | 0.0 | 0.0 |
| | J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 0 | 0 0 | 3 | 0 45 | 0 | 0.0 | 0.27 |
| 1 | K1 COURSES IN CAREER PLANNING | 6 | 1 11 | 5 | 0 75 | 5 | 0.73 | 0.77 |
| 37 | KE OCCUP INFO UNITS IN SUBJECT MATTER CLASSES | 4 | 0.74 | 8 | 1 20 | 6 | 0.87 | 1.06 |
| ~ | K3 EXPLORATORY WORK EXPERIENCE | 8 | 1 48 | 7 | 1 05 | 9 | 1.31 | 1.17 |
| ł | K4 CAREER DAYS, SPEAKERS, ETC | 11 | 2 04 | 18 | 2 69 | 25 | 3.64 | 2.93 |
| | KS CAREER CLUBS | 0 | 0 0 | 1 | 0 15 | 3 | 0.44 | 0.22 |
| | K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | ŏ | 0 0 | Õ | 0 0 | 1 | 5۱ 0 | 0.04 |
| | | 15 | 2 78 | 8 | 1 20 | 10 | 1.46 | 1.42 |
| | K7 JOB SITE TOURS | 7 | 1 30 | ā | 1 20 | 14 | 2.04 | 1. 6 |
| | K8 JOB SHADOWING | ģ | 1.67 | 10 | 1 50 | 16 | 2 33 | 1.77 |
| | K9 CONFERENCES WITH COMMUNITY REPS | ź | 0 37 | 1 | | 3 | 0 44 | 0.26 |
| | K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 1 | 0 19 | ō | 0 0 | ī | 0 15 | 0.06 |
| | L1 SIMULATIONS | 6 | 1 11 | 12 | 1 80 | 7 | 1 02 | 1 50 |
| | M1 CONFERENCES WITH COUNSELORS | 1 | 0 19 | • | • | 0 | 0.0 | 0.02 |
| | M2 ASSISTANCE FROM OTHER STAFF | 2 | | ì | 0 15 | i | 0 15 | 0.17 |
| | A99 BOUND REFERENCES | ī | 0 19 | ō | 0 0 | 0 | 0.0 | 0.02 |
| | B99 OCCUPATIONAL BRIEFS AND KITS | | 0 0 | ŏ | | ō | 0.0 | 0.0 |
| | C99 PERIODICALS | 0 | 0 0 | 2 | 0 30 | 0 | 0.0 | 0.18 |
| | D99 SERIES OF BOOKS ON INCIV. OCC. | 1 | 0 19 | ō | 0 0 | 0 | 0.0 | 0.02 |
| | E99 LIST OF EMPLOYERS | 0 | 0 0 | ŏ | 0 0 | 0 | 0.0 | 0.0 |
| | F99 EDUCATIONAL DIR, FOR OCC. | ō | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | G99 COMPUTERIZED INFO SYSTEMS | 1 | 0 19 | 0 | 0 0 | 1 | 0.15 | 0.06 |
| | H99 AUDIO-VISUAL MATERIALS | 0 | 0 0 | 0 | 0 0 | ō | 1 1 2 7 | 0.0 |
| | 199 MICPOFORMS | 0 | 0 0 | 0 | 0 0 | ō | 0.0 | 0.0 |
| | J99 NON-COMPUTERIZED SORTING MATERIALS | 1 | 0 19 | 0 | 0 0 | ő | 0.0 | 0.02 |
| | K99 SCHOOL ARRANGED EXPERIENCES | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | L99 SIMULATIONS | - | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | M99 PERSONAL CONTACT WITH SCHOOL STAFF | .0 | • - | 8 | | 11 | 1.60 | 1.38 |
| | NA NOT APPLICABLE | 30 | 1 85 | _ | - | 12 | 1.75 | 2.89 |
| | DK DON'T KNOW | 17 | 3 15 | 23 76 | 11.38 | 41 | 5.98 | 9.60 |
| | NO RESPONSE | 55 | 10 19 | /6 | 11.30 | 7.1 | 3.70 | , , , , , , |
| £ | | | | | | | | CONTINUED) |

(CONTINUED)



| | TYPHS ALM | | 540 | | 568 | | 686 | NATL EST |
|-----|---|------------|------------------|------|---------|------|---------|----------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 130 | RESOURCE USED TO SUGGEST UNFAMILIAR OCC FOR STUDENT TO CONS | *** | | | | | | |
| ••• | AT OCCUPATIONAL DUTLOOK HANDBOOK | 99 TOEK | | | | | | |
| | AZ DICTIONARY DF OCCUP TITLES | 40 | 17.78 7.41 | 115 | 17 22 | 128 | 18.66 | 17.69 |
| | A3 GUIDE FOR OCCUP EXPLOPATION | 5 | | 41 | 6 14 | 45 | 6.56 | 6.37 |
| | A4 ENCYCL OF CAREERS AND VOC GUIDANCE | 17 | 0.93 3.15 | 7 | 1 05 | Ž | 0 29 | 0.80 |
| | AS I CAN BE ANYTHING CAREERS AND COLLEGES FOR YOUNG W | 4 | | 27 | 4 04 | 21 | 3.06 | 3.66 |
| | A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | 0 7 ⁶ | 1 | 0 15 | 3 | 0.44 | 0.29 |
| | A7 THE NATIONAL APPRENTICESHIP PROGRAM | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | AS OCCUP. HANDBOOKS FOR THE MILITARY | 0 | | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | A9 WORKER TRAIT GROUP GUIDE | | 0 0 | 0 | 0 0 | 1 | 0.15 | 0.84 |
| | Alo OTHER (BOUND REFERENCES) | 4 | 0 37 | 3 | 0 45 | 7 | 1 02 | 0.62 |
| | BI B'NAI B'RITH BRIEFS | 0 | 0 0 | 6 | 0 90 | 2 | 0.29 | 0.63 |
| | B2 CAREERS, INC. | 1 | 0.19 | 0 | 0 0 | 1 | 0.15 | 0.06 |
| 1 | B3 CATALYST PAMPHLETS | 6 | 1.11 | 18 | 2.69 | 19 | 2.77 | 2 58 |
| دن | B4 CHRONICLE GUIDANCE | 0 | 0 0 | Ò | 0.0 | 0 | 0.0 | 0.0 |
| 75 | B5 SRA BRIEFS | 20 | 3 70 | 23 | 3 44 | 30 | 4.37 | 3.75 |
| ĭ | B6 OCCUP. GUIDANCE BRIEFS | 13 | 2 41 | 21 | 3 14 | 15 | 2 19 | 2.78 |
| | B7 GUIDANCE CENTRE MONOGRAPHS | 3 | 0 56 | 4 | 0.60 | 8 | 1.17 | 0.77 |
| | | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| | 89 JOB FACT SHEETS | 1 | 0 19 | 2 | 0 30 | 2 | 0 29 | 0.29 |
| | B9 VOCATIONAL BIOGRAPHIES | 3 | 0 56 | 3 | 0 45 | 14 | 2 04 | 0.95 |
| | BIO OCCUP BRIEFS PUBLISHED BY STATE | 2 | 0 37 | 13 | 1 95 | 5 | 0 73 | 1.43 |
| | BIL PAMPHLETS PREPAPED BY PROFESSIONAL ASSOC. | 9 | 1 67 | 6 | 0 90 | 6 | 0 87 | 0.96 |
| | B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | ٥ | 0 0 | 4 | 0 60 | 1 | 0.15 | 0.41 |
| | B13 WRITE-UPS BY FORMER STUDENTS | 2 | 0 37 | 0 | 0 0 | 0 | 0 0 | 0.03 |
| | B14 OTHER (OCCUP. BRIEFS AND KITS) | 7 | 1 30 | 6 | 0.90 | 11 | 1 60 | 1.15 |
| | C1 CAPEER HOPLD | 9 | 1 67 | 11 | 1 65 | 8 | 1 17 | 1 50 |
| | C2 DCCUP. IN DEMAND | 7 | 1 30 | 1 | 0.15 | 1 | 0 15 | 0.25 |
| | C3 OCCUP. OUTLOOK QUARTERLY | 3 | 0 56 | 1 | 0 15 | 4 | 0 58 | 0.32 |
| | C4 REAL HOPLD | 2 | 0 37 | 3 | 0 45 | 2 | 0 2 9 | 0.39 |
| | C5 CIVIL SERVICE EXAM BULLETINS | 1 | 0 19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| | C6 OTHER (PEPIDDICALS) | 1 | 0 19 | 1 | 0 15 | 0 | 0.0 | 0 11 |
| | D) OPPURTUNITIES IN | 4 | 0 74 | 4 | 0 60 | 5 | 0 73 | 0.65 |
| | DE YOUR CAREER IN . | 3 | 0 56 | 2 | 0 30 | 1 | 0 15 | 0.27 |
| | D3 YOUR FUTURE IN . | 3 | 0 56 | 3 | 0.45 | 2 | 0 29 | 0.41 |
| | D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP) | 1 | 0 19 | 1 | 0 15 | 0 | 0.0 | 0 11 |
| | EL DIPECTORIES OF BUSINESSES | 1 | 0 19 | 0 | 0 0 | 1 | 0 15 | 0.06 |
| | EZ SCHOOL FREPAREO LISTS OF EMPLOYERS, ETC | 1 | 0.19 | 0 | 0 0 | 2 | 0.29 | 0.11 |
| | E3 OTHER (LIST OF EMPLOYERS) | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| | F1 COLLEGE DIRECTORIES APRANGED BY OCCUP | 0 | 0 0 | 2 | 0.30 | 0 | 0 0 | 0.18 |
| | F2 VOCATIONAL SCHOOL DIRECTORIES | 4 | 0 74 | 3 | 0 45 | 3 | 0.44 | 0.47 |
| | F3 A JOB TPAINIG DIRECT FOR YOUR STAFF | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0 0 | 3 | 0 45 | ż | 0.29 | 0.36 |

(CONTINUED)



| NUTTO | ER OF OBSERVATIONS | | RATUM1 540 | | RATUM2 668 | | RATUM3 686 | NATL EST |
|-------|--|----------|---------------|------|---------------|------|---------------|------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | | | | | |
| 1 30 | RESOURCE USED TO SUGGEST UNFAMILIAR OCC FOR STUDENT TO | CONSIDER | | | | | | |
| | G1 CHOICES | 1 | 0 19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| | GZ COIN | 6 | 1 11 | 5 | 0 75 | 6 | 0.87 | 0.82 |
| | G3 CVIS | 5 | 0 93 | 1 | 0 15 | 5 | 0.73 | 0.40 |
| | G4 DISCOVER | 2 | 0 37 | 2 | 0 30 | 2 | 0 29 | 0.30 |
| | G5 GIS | 18 | 3 33 | 17 | 2 54 | 42 | 6.12 | 3.71 |
| | G6 YOUR STATE SYSTEM | 7 | 1 30 | 2.2 | 3 29 | 36 | 5.25 | 3.71 |
| | G7 YOUR SCHOOL OR COUNTY SYSTEM | 3 | 0 56 | 0 | 0 0 | 5 | 0.73 | 0.27 |
| | GB OTHER (CCHPUTERIZED INFO SYSTEMS) | 1 | 0 19 | 1 | 0 15 | 0 | 0 0 | 0.11 |
| | HI YOUR OWN SCHOOL MADE A-V EQUIP. | 2 | 0 37 | 2 | 0 30 | 5 | 0.73 | 0.44 |
| | HE EXTERNALLY PRODUCED A-V EQUIP. | 16 | 2 96 | 17 | 2 54 | 13 | 1.90 | 2.38 |
| 1 | H3 OTHER (AUDIO-VISUAL) | 1 | 0 19 | 3 | 0 45 | 0 | 0.0 | 0.29 |
| ယ် | 11 STATE OF REGIONAL MICROFILM | 12 | 2 22 | 29 | 4 34 | 19 | 2 77 | 3.67 |
| 76 | 12 LOCAL MICPOFILM | 2 | 0 37 | 0 | 0 0 | 1 | 0.15 | 0.08 |
| ĭ | 13 OTHER (MICROFOPMS) | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | JI KEY OR HEEDLESORT | 3 | 0 56 | 16 | 2 40 | 6 | 0.87 | 1.76 |
| | J2 SCORE INTERP GUIDES FOR INVENTORIES | 3 | 0 56 | 7 | 1 05 | 17 | 2 48 | 1.44 |
| | J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 1 | 0 19 | 4 | 0 60 | 1 | 0 15 | 0.42 |
| | F1 COUPSES IN CAPEER PLANNING | 10 | 1 85 | 9 | 1 35 | 18 | 2.42 | 1.78 |
| | KE OCCUP INFO UNITS IN SUBJECT MATTER CLASSES | 10 | 1 85 | 14 | 2 10 | 8 | 1 17 | 1.79 |
| | K3 EXPLORATORY HORK EXPERIENCE | 3 | 0 56 | 1 | 0 15 | 1 | 0.15 | 0.18 |
| | Y4 CAREER DAYS, SPEAKERS, ETC | 25 | 4 63 | 16 | 2 40 | 14 | 2 54 | 2.48 |
| | KS CAPEER CLUBS | 0 | 0 0 | 0 | 0 0 | 0 | ٥.٥ | 0.0 |
| | K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 2 | 0 37 | 0 | 0 0 | 1 | 0 15 | 0.08 |
| | | 7 | 1 30 | 6 | 0 90 | 6 | 0 87 | 0.93 |
| | K7 JOB SITE TOUPS | 1 | 0 19 | 1 | 0 15 | 1 | 0.15 | 0.15 |
| | K8 JOB SHADDWING K9 CONFEPENCES WITH COMMUNITY REPS | 4 | 0 74 | 3 | 0 45 | 2 | 0 29 | 0.43 |
| | KIO OTHER (SCHOOL ARRANGED EXPERIENCES) | 3 | 0 56 | 6 | 0 90 | 10 | 1.46 | 1.04 |
| | | í | 0 19 | 3 | 0 45 | 0 | r. 0 | 0.29 |
| | LI SINULATIONS | 18 | 3 33 | 25 | 3 74 | 23 | 3 35 | 3.58 |
| | MI COMPERENCES WITH COUNSELORS | 2 | 37 | 0 | 0 0 | 1 | 0 15 | 0.08 |
| | ME ASSISTANCE FROM OTHER STAFF | ì | 0 19 | 0 | 0 0 | 1 | 0 15 | 0.06 |
| | A99 BOUND REFERENCES | ī | 0 19 | 1 | 0 15 | 0 | 0 0 | 0 11 |
| | 899 OCCUPATIONAL BRIEFS AND KITS | i | 0 19 | ō | 0 0 | 1 | 0.15 | 0.06 |
| | C99 PERIODICALS | Ô | 0 0 | i | 0 15 | 0 | 0 0 | 0.09 |
| | DOO SEPIES OF BOOKS ON INDIV OCC. | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 | 0.0 |
| | E99 LIST OF EMPLOYERS | 0 | 0 0 | ō | 0 0 | ō | 0 0 | 0.0 |
| | F99 EDUCATIONAL DIR FOR OCC | 0 | 0 0 | 0 | 0 0 | ō | 0 0 | 0 0 |
| | GOO CONFUTERIZED INFO SYSTEMS | 1 | 0 19 | 0 | 0 0 | 1 | 0 15 | 0.06 |
| | H99 AUDIO-VISUAL MATERIALS | 0 | 0 0 | 0 | 0 0 | ō | 0 0 | 0.0 |
| | 199 MICPOFOPMS | U | 0 0 | · | • • | · | | |
| • | | | | | | | ţ | CONTINUED) |

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ERIC **
Full Text Provided by ERIC

| NUMBE | ER OF DESERVATIONS | 5 T | RATUM1 540 | 51 | PATUM2 | 5 T | RATUMS 686 | HATL EST |
|-------|---|------------|---------------|------|---------------|------------|---------------|----------|
| | ITEMS AND ALTERNATIVES | FRFQ | PERCENT | FRFO | PERCENT | £0£0 | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | , | 7 4 7 4 7 7 7 | | reaction | PERCENT |
| | | | | | | | | |
| 1 30 | RESCURCE USED TO SUGGEST UNFAMILIAR OCC FOR STUDENT TO CONS | IDER | | | | | | |
| | J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | K99 SCHOOL ARRANGED EXPERIENCES | 1 | 0 19 | 0 | 0 0 | 1 | 0 15 | 0.06 |
| | L99 SIMULATIONS | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| | M99 PERSONAL FUNTACT WITH SCHOOL TAFF | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | NA NOT AFPLICABLE | 11 | 2 04 | 7 | 1 05 | 14 | 2.04 | 1.44 |
| | OK DON'T KHÔM | 22 | 4.07 | 31 | 4 64 | 19 | 2.77 | 4.01 |
| | NO RESPONSE | 62 | 11.48 | 83 | 12 43 | 54 | 7.87 | 10.93 |
| 138 | RESOURCE USED TO ENABLE POOR READERS TO GET INFO ABOUT OCCU | PATION | is | | | | | |
| | AL OCCUPATIONAL DUTLOOK HANDROOK | 20 | 3 70 | 27 | 4.04 | 23 | 3.35 | 3.60 |
| | AZ DICTIONARY OF OCCUP. TITLES | 3 | 0 56 | 1 | 0 15 | 2 | 0.29 | 0.23 |
| | A3 GUIDE FOR OCCUP EXPLORATION | 0 | 0 0 | 1 | 0.15 | ō | 0 0 | 0.09 |
| | A4 ENCYCL OF CAREERS AND VOC. GUIDANCE | 3 | 0 56 | 3 | 0 45 | 4 | 0.58 | 0.50 |
| | AS I CAN BE ANYTHING CAREEPS AND COLLEGES FOR YOUNG W | 2 | 0 37 | 0 | 0 0 | 0 | 0.0 | 0.03 |
| | AS EMPLOYMENT DEPORTUNITIES FOR THE HANDICAPPED | 0 | 0 0 | 4 | 0 60 | 1 | 0 15 | 0.41 |
| | A7 THE NATIONAL APPPENTICESHIP PROGRAM | 0 | 0 0 | 0 | 0 0 | ō | 0 0 | 0.0 |
| | AS OCCUP, HANDBOOKS FOR THE HILITARY | 2 | 0 37 | 0 | 0.0 | Ď | 0.0 | 0.03 |
| | A9 WORLER TRAIT GROUP GUIDE | 2 | 0 37 | i | 0.15 | 1 | 0 15 | 0.17 |
| | Ald OTHER (BOUND REFERENCES) | 2 | 0 37 | 4 | 0 60 | ž | 0 29 | 0.48 |
| | B1 B'NAI B'PITH BRIEFS | 0 | 0 0 | 0 | 0.0 | ō | 0 0 | 0.0 |
| | B2 CAREERS. INC | 15 | 2. | 20 | 2 99 | 16 | 2 33 | 2.77 |
| | B3 CATALYST PAMPHLETS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0 0 |
| | 84 CHRONICLE GUIDANCE | 5 | 0 93 | 14 | 2 10 | 6 | 0.87 | 1.62 |
| | B5 SPA BPIEFS | 22 | 4 07 | 14 | 2 10 | 26 | 3.79 | 2.79 |
| | B6 OCCUP GUIDANCE BRIEFS | 4 | 0 74 | 2 | 0 30 | 7 | 1.02 | 0.56 |
| | B7 GUIDANCE CENTRE MONOGRAPHS | 0 | 0 0 | ō | 0 0 | 0 | 0.0 | 0.0 |
| | BS JOB FACT SHEETS | 0 | 0 0 | 0 | 0 0 | ó | 0 0 | 0 0 |
| | B9 VOCATIONAL BIOGRAPHIES | 3 | 0 56 | 2 | 0.30 | 5 | 0.73 | 0.45 |
| | Blo OCCUP BRIEFS PUBLISHED BY STATE | 1 | 0 19 | 4 | 0 60 | ī | 0 15 | 0.42 |
| | B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 2 | 0 37 | 2 | 0 30 | ō | 0 0 | 0.21 |
| | B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 0 | 0 0 | 2 | 0 30 | ĭ | 0 15 | 0 23 |
| | B13 WRITE-UPS BY FORMER STUDENTS | ō | 0 0 | ō | 0 2 | ō | 0 0 | 0.0 |
| | 814 OTHER (OCCUP. BRIEFS AND KITS) | 7 | 1 30 | 9 | 1 35 | 16 | 2 33 | 1.64 |
| | C1 CAPEER WOPLD | 17 | 3 15 | 20 | 2 99 | 25 | 3 64 | 3 20 |
| | CZ DCCUP. IN DEMAND | í | 0 19 | 0 | 0 (| 0 | 0 0 | 0.02 |
| | C3 OCCUP. OUTLOCK QUARTERLY | î | 0 19 | Ŏ | 0.0 | 1 | 0.15 | 0.06 |
| | C4 REAL HORLD | 9 | 1 67 | 12 | 1 80 | 15 | 2.19 | 1 90 |
| | C5 CIVIL SERVICE EXAM BULLETINS | Ó | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | C6 OTHER (PERIODICALS) | 1 | 0 19 | 1 | 0 15 | 1 | 0.15 | 0.15 |
| | TO Compare the supervisor / | • | 0 1, | • | 0 19 | | V - 13 | V.13 |



| HŲI | MBER OF OBSERVATIONS | | RATUM1 540 | | RATUM2 568 | - | RATUM3 686 | NATL EST |
|-----|--|----------|---------------|------|---------------|------|---------------|-------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | | | | | |
| 1 | SE RESOURCE USED TO ENABLE POOR READERS TO GET INFO ABOUT OF | CUPATION | 5 | | | | | |
| • | O1 OPPUPTUNITIES IN | 1 | 0 19 | 2 | 0 30 | 0 | 0.0 | 0.20 |
| | DZ YOUR CAREER IN | 1 | 0 19 | 1 | 0.15 | 2 | 0.29 | 0.20 |
| | 03 YOUR FUTURE IN | 3 | 0 56 | 3 | 0.45 | 3 | 0.44 | 0.45 |
| | D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP) | 4 | 0 74 | 5 | 0 75 | 3 | 0.44 | 0.65 |
| | EL DIRECTORIES OF BUSINESSES | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | E2 SCHOOL FREPARED LISTS OF EMPLOYERS, ETC. | 4 | 0 74 | 0 | 0.0 | 2 | 0.29 | 0.15 |
| | E3 OTHER (LIST OF EMPLOYERS) | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP | 0 | 0 0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | F2 VOCATIONAL SCHOOL DIRECTORIES | 3 | 0 56 | 2 | 0 30 | 2 | 0 29 | 0.32 |
| | F3 A JOB TRAINIG DIRECT FOR YOUR STAFF | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 1 | 0 19 | 1 | 0.15 | 0 | 0.0 | 0,11 |
| ٺ | G1 CHOICES | 1 | 0 19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| 7 | GS COIN | 6 | 1 11 | 2 | 0.30 | 1 | 0.15 | 0.32 |
| 00 | G3 CVIS | 5 | 0 93 | 0 | 0.0 | 4 | 0.58 | 0.26 |
| • | G4 DISCOVER | 3 | 0 56 | 0 | 0.0 | 0 | 0.0 | 0.05 |
| | G5 G1S | 15 | ٠ 78 | 9 | 1.35 | 29 | 4.23 | 2.36 |
| | GE YOUR STATE SYSTEM | 8 | 1.48 | 20 | 2.99 | 23 | 3.35 | 2.97 |
| | 67 YOUR SCHOOL OR COUNTY SYSTEM | 4 | 0.74 | 1 | 0.15 | 1 | 0 15 | 0.20 |
| | GA OTHER (COMPUTERIZED INFO. SYSTEMS) | 0 | 0.0 | 0 | 0 0 | 2 | 0.29 | 0.09 |
| | HI YOUR DWN SCHOOL MADE A-V EQUIP. | 16 | 2 96 | 7 | 1.05 | 11 | 1.60 | 1.39 |
| | H2 EXTERNALLY PRODUCED A-V EQUIP. | 86 | 15 93 | 92 | 13.77 | 122 | 17.78 | 15.18 |
| | H3 OTHER (AUDIO-VISUAL) | 3 | 0 56 | 2 | 0 30 | 4 | 0.58 | 0.41 |
| | II STATE OR REGIONAL MICROFILM | 11 | 2 04 | 32 | 4 79 | 31 | 4.52 | 4.46 |
| | 12 LOCAL MICPOFILM | 3 | 0 56 | 2 | 0 30 | 1 | 0.15 | 0.27 |
| | 13 OTHER (MICROFORMS) | 0 | 0.0 | 2 | 0.30 | 3 | 0.44 | 0.32 |
| | JI KEY OP NEEDLESORT | ì | 0.19 | 12 | 1.80 | 1 | 0 15 | 1.15 |
| | J2 SCORE INTERP GUIDES FOR INVENTORIES | õ | 0.0 | 2 | 0.30 | 1 | 0.15 | 0.23 |
| | J3 OTHER (NON-COMPUTER SOPTING MATERIALS) | ō | 0.0 | 1 | 0.15 | 5 | 0.73 | 0.31 |
| | | 12 | 2 22 | 8 | 1.20 | 15 | 2.19 | 1.59 |
| | K1 COUPSES IN CAPEER PLANNING K2 OCCUP. INFO UNITS IN SUBJECT MATTER CLASSES | 10 | | 11 | 1.65 | 12 | 1.75 | 1.69 |
| | | 5 | | 3 | 0.45 | 9 | 1 31 | 0.76 |
| | K3 EXPLORATORY WORK EXPERIENCE | 26 | 4 81 | 26 | 3.89 | 31 | 4.52 | 4.16 |
| | K4 CAREER DAYS, SPEAKERS, ETC. | 1 | | 1 | | 2 | 0.29 | 0.20 |
| | KS CAREER CLUBS | ō | | õ | | 1 | 0.15 | 0.04 |
| | K6 VOLUNTEER SERVICE APRANGED BY SCHOOL | 11 | | 16 | 2 40 | 10 | 1 45 | 2.07 |
| | K7 JOB SITE TOURS | 2 | _ | 0 | = | 0 | 0.0 | 0.03 |
| | KS JOB SHADOWING | 7 | | 7 | | 7 | 1 02 | 1.06 |
| | K9 CONFERENCES WITH COMMUNITY REPS | Ś | | 3 | | 2 | 0.29 | 0.44 |
| | Y10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 4 | | 4 | 0.60 | 1 | 0.15 | 0.47 |
| | LI SIMULATIONS | ~ | ••,, | | | | | |
| · / | | | | | | | | (CONTINUED) |

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| HUHBE | R OF OBSERVATIONS | 3 1 | RATUM1 540 | = | RATUM2 668 | | RATUHS 686 | MATL EST |
|-------|---|------------|---------------|------|---------------|------|---------------|----------|
| | ITEMS AND | | | | | | | |
| | ALTERNATIVES | FREQ | PERCENT | FREG | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEH CONTINUED) | | | | | | | |
| 13E | RESOURCE USED TO ENABLE POOR READERS TO GET INFO ABOUT OCCU | PATION | ıs | | | | | |
| | MI CONFERENCES WITH COUNSELORS | 10 | 1.65 | 34 | 5.09 | 26 | 3.79 | 4.40 |
| | M2 ASSISTANCE FROM OTHER STAFF | 4 | 0.74 | 2 | 0.30 | 2 | 0.29 | 0.34 |
| | A99 BOUND REFERENCES | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | B99 OCCUPATIONAL BRIEFS AND KITS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | C99 PERIODICALS | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | 099 SERIES OF BOOKS ON INDIV. OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | G99 COMPUTERIZED INFO. SYSTEMS | 0 | 0.0 | 0 | 0.0 | ٥ | 0.0 | 0.0 |
| | H99 AUDID-VISUAL MATERIALS | 2 | 0.37 | 1 | 0.15 | 1 | 0.15 | 0.17 |
| | 199 MICPOFORMS | | 0.0 | ō | 0.0 | ō | 0.0 | 0.0 |
| | J99 NON-COMPUTERIZED SORTING MATERIALS | ٥ | 0.0 | ō | 0.0 | ŏ | 0.0 | 0.0 |
| | K99 SCHOOL ARRANGED EXPERIENCES | 1 | 0.19 | ō | 0.0 | 2 | 0.29 | 0.11 |
| | L99 SIMULATIONS | ò | 0.47 | Ö | 0.0 | ò | 0.0 | 0.0 |
| | MAR PERSONAL CONTACT WITH SCHOOL STAFF | a | 0 0 | 0 | 0.0 | ŏ | 0.0 | 0.0 |
| | NA NOT APPLICABLE | 29 | 5.37 | 41 | 6.14 | 32 | 4.66 | 5.61 |
| | DK DON'T KNOM | 47 | 8.70 | 75 | 11.23 | 62 | 9.04 | 10.32 |
| | NO RESPONSE | 61 | 11.30 | 93 | 13.92 | 66 | 9.62 | 12.36 |
| 13F | RESOURCE USED TO HELP COLLEGE-BOUND STUDENTS SELECT SUITABL | F PPOG | PAMS | | | | | |
| • 31 | A1 OCCUPATIONAL OUTLOOK HANDROOK | 13 | 2 41 | 26 | 3 89 | 12 | 1.75 | 3.10 |
| | AZ DICTIONARY OF OCCUP. TITLES | -4 | 0 74 | 3 | 0 45 | | 0.29 | 0.43 |
| | A3 GUIDE FOR OCCUP, EXPLOPATION | i | 0 19 | í | 0 15 | Ď | 0.0 | 0.11 |
| | A4 ENCYCL. OF CAPEERS AND VOC. GUIDANCE | 10 | 1 85 | 5 | 0.75 | 2 | 0.29 | 0.70 |
| | AS I CAN BE ANYTHING. CAREERS AND COLLEGES FOR YOUNG W | 2 | 0 37 | í | 0.15 | 1 | 0.15 | 0.17 |
| | A6 EMPLOYMENT OPFORTUNITIES FOR THE MANDICAPPED | | 0 0 | | 0.5 | î | 0.15 | 0.04 |
| | A7 THE NATIONAL APPPENTICESHIP PROGRAM | 0 | 0.0 | 0 | 0.0 | â | 0.15 | 0.0 |
| | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | AS OCCUP HANDBOOKS FOR THE MILITARY | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | A9 WORKER TRAIT GROUP GUIDE | 5 | 0.93 | 10 | | 11 | 1.60 | 1.48 |
| | A10 OTHER (BOUTED REFERENCES) | 0 | | | 1.50 | 7.1 | 0.0 | 0.09 |
| | B1 B'NAI B'RITH BRIEFS | - | 0 0 | 1 | 0 15 | • | 0.0 | 0.35 |
| | B2 CAPEERS, INC. | 5 | 0.93 | 2 | 0.30 | 2 | | |
| | B3 CATALYST PAMPHLETS | 0 | 0 0 | . 0 | 0 0 | 0 | 0.0 | 0.0 |
| | 84 CHRONICLE GUIDANCE | 5 | 0 93 | 11 | 1 65 | 9 | 1 31 | 1.48 |
| | B5 SPA BRIEFS | 1 | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| | B6 OCCUP, GUIDANCE BPIEFS | 0 | 0 0 | 2 | 0.30 | 0 | 0.0 | 0.18 |
| | B7 GUIDANCE CENTRE MONOGRAPHS | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | BB JOB FACT SHEETS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | B9 VOCATIONAL BIOGRAPHIES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |



| HUMBER OF OBSERVATIONS | STRATUM1 540 | | STRATUME 668 | | STRATUMS 686 | | MATL EST | |
|--|-----------------|---------|-----------------|---------|-----------------|---------|----------|--|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT | |
| (ITEM CONTINUED) | | | | | | | | |
| 13F RESOURCE USED TO HELP COLLEGE-BOUND STUDENTS SELECT SUITAL | BLE PROG | RAMS | | | | | | |
| BIO OCCUP. BRIEFS PUBLISHED BY STATE | \$ | 0.37 | 2 | 0.30 | 1 | 0.15 | 0.26 | |
| Bll PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 1 | 0.19 | Z | 0.30 | 2 | 0.29 | 0.29 | |
| BIZ PAMPHLETS PREPARED BY PRIVATE BUSINESS | 5 | 0.37 | 0 | 0.0 | 0 | 0.0 | 0.03 | |
| 813 WRITE-UPS BY FORMER STUDENTS | 0 | 0.0 | ð | 0 0 | 0 | 0.0 | 0.0 | |
| B14 OTHER (OCCUP. BRIEFS AND KITS) | 2 | 0.37 | 6 | 0.90 | • | 0.58 | 0.75 | |
| C1 CAREER MORLD | Ž | 0.37 | 1 | 0.15 | 0 | 0.0 | 0.12 | |
| CZ OCCUP. IN DEMAND | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 | |
| C3 OCCUP. DUTLOOK QUARTERLY | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 | |
| C4 REAL WORLD | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| CS CIVIL SERVICE EXAM BULLETINS | Ō | 0.0 | Ô | 0.0 | 0 | 0.0 | 0.0 | |
| C6 OTHER (PERIODICALS) | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 | |
| D1 OPPURTUNITIES IN | ō | 0.0 | Ď | 0.0 | ò | 0.0 | 0.0 | |
| DE YOUR CAREER IN | ō | 0.0 | 0 | 0.0 | Ō | 0.0 | 0.0 | |
| D3 YOUR FUTURE IN | | 0.0 | ٥ | 0.0 | Ď | 0.0 | 0.0 | |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | | 0.0 | ž | 0.30 | 1 | 0.15 | 0.23 | |
| E1 DIRECTORIES OF BUSINESSES | | 0.0 | 0 | 0.0 | ī | 0.15 | 0.04 | |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 0 | 0.0 | | 0.0 | ī | 0.15 | 0.04 | |
| E3 OTHER (LIST OF EMPLOYERS) | ĭ | 0 19 | ŏ | 0.0 | ō | 0.0 | 0.02 | |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 217 | 40.19 | 264 | 39.52 | 300 | 43.73 | 40.83 | |
| F2 VOCATIONAL SCHOOL DIRECTORIES | 27 | 5 00 | 26 | 3.89 | 29 | 4.23 | 4.09 | |
| F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF | 1 | 0.19 | | 0.0 | | 0.0 | 0.0" | |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 12 | 2.22 | 24 | 3.59 | 19 | 2.77 | 3.22 | |
| 61 CHOICES | 15 | 0.0 | | 0.0 | | 0.0 | 0.0 | |
| 65 COIN | 8 | 1.48 | 6 | 0.90 | , i | 0.58 | 0.85 | |
| 63 CVIS | 6 | 1.11 | 3 | 0.45 | 3 | 0.44 | 0.50 | |
| G4 DISCOVER | 4 | 0.74 | í | 0.15 | 2 | 0.29 | 0.25 | |
| 65 613 | 37 | 6.85 | 18 | 2.69 | 76 | 11.08 | 5.63 | |
| G6 YOUR STATE SYSTEM | 12 | 2.22 | 18 | 2.69 | 34 | 4.96 | 3.34 | |
| | 2 | 0 37 | 1 | 0.15 | 3 | 0.44 | 0.26 | |
| 67 TOUR SCHOOL OR COUNTY SYSTEM | 2 | 0.37 | i | 0.15 | 1 | 0.15 | 0.17 | |
| G8 OTHER (COMPUTERIZED INFO. STSTEMS) | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 | |
| HI TOUR OWN SCHOOL MADE A-V EQUIP. | 2 | 0.0 | 0 | 0.0 | | 0.0 | 0.03 | |
| HE EXTERNALLY PRODUCED A-V EQUIP. | 0 | | 0 | 0.0 | 2 | 0.29 | 0.09 | |
| H3 OTHER (AUDIO-VISUAL) | - | 0.0 | - | 2.10 | 13 | 1.98 | 2.01 | |
| II STATE OR REGIONAL MICROFILM | 10 | 1.85 | 14 | 2.10 | 13 | 0.0 | 0.02 | |
| IZ LOCAL MICROFILM | 1 | 0.19 | 0 | - • | 4 | 0.0 | 0.02 | |
| 13 OTHER (MICROFORMS) | 3 | 0.56 | - | 0.0 | • | 0.29 | 0.56 | |
| JI KEY OR NEEDLESORT | 1 | 0.19 | 5 | 0.75 | ž | - | | |
| JE SCORE INTERP GUIDES FOR INVENTORIES | 2 | 0.37 | 0 | 0.0 | 1 | 0.15 | 0.08 | |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 5 | 0.37 | 4 | 0.60 | 3 | 0.44 | 0.53 | |

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ALL SCHOOLS

| MUMBER OF OBSERVATIONS | \$1 | FRATUM) 540 | 51 | RATUM2 668 | 51 | RATUM3 686 | HATL EST |
|--|-------------|----------------|------|---------------|------|---------------|--------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 175 BEFORES LISTE TO HELD COLLEGE DOLLD STUDENTS OF THE | | | | | | | |
| 13F RESOURCE USED TO HELP COLLEGE-BOUND STUDENTS SELECT ! K1 COURSES IN CAREER PLAINING | | | | | | | |
| KE OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 3 | 0 56 | 1 | 0 15 | 6 | 0.87 | 0.41 |
| K3 EXPLYRATORY WORK EXPERIENCE | 1 0 | 0 19 0.0 | 0 | 0.0 0.15 | 1 | 0.15 0.0 | 0.06 |
| K4 CAREER DAYS, SPEAKERS, ETC. | 7 | 1 30 | 15 | 2.25 | 0 7 | 1.02 | 0.09 1.78 |
| KS CAREER CLUBS | Ó | 0.0 | 0 | 0.0 | 6 | 0.0 | 0.3 |
| K6 VOLUNTEER SERVICE ARPANGED BY SCHOOL | 2 | 0.37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| K7 JOB SITE TOUPS | 0 | 0.0 | 0 | 0.0 | | 0.0 | 0.03 |
| K8 JOB SHADOWING | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K9 CONFERENCES WITH COMMUNITY REPS | 4 | 0.0 | 2 | 0.30 | 4 | 0.58 | 0.43 |
| K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 3 | 0 56 | 3 | 0.30 | 0 | 0.56 | 0.32 |
| LI SIMULATIONS | ő | 0 0 | 0 | 0.43 | 0 | 0.0 | 0.0 |
| MI COMPERENCES WITH COUNSELORS | 23 | 4 26 | 46 | 6.89 | 36 | 5.25 | 6.15 |
| ME ASSISTANCE FROM OTHER STAFF | 3 | 0 56 | 4 | 0.60 | 2 | 0.29 | 0.50 |
| A99 BOUND REFERENCES | 0 | 0.0 | 0 | 0.00 | ì | 0.15 | 0.04 |
| B99 OCCUPATIONAL BRIEFS AND KITS | 0 | 0.0 | 0 | 0 0 | | 0.15 | 0.0 |
| C99 PERIODICALS | 0 | 0 0 | 0 | 0 0 | | 0.0 | 0.0 |
| D99 SERIES OF BOOKS ON INDIV. OCC. | | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 3 | 0.56 | 2 | 0.30 | 1 | 0.15 | 0.27 |
| G99 COMPUTERIZED INFO. SYSTEMS | , | 0.0 | 0 | 0.30 | 0 | 0.13 | 0.0 |
| H99 AUDIO-VISUAL MATERIALS | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| 199 MICPOFORMS | 1 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| J99 NON-COMPUTERIZED SORTING MATERIALS | Ô | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL APRANGED EXPERIENCES | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| L99 SIMULATIONS | 0 | 0 0 | Ō | 0.0 | 0 | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | ō | 0.0 | ō | 0 0 | ō | 0.0 | 0.0 |
| NA NOT APPLICABLE | 17 | 3.15 | 17 | 2.54 | 16 | 2.33 | 2.53 |
| DK CON'T KNOW | 12 | 2 22 | 32 | 4 79 | 12 | 1 75 | 3 63 |
| NO RESPONSE | 53 | 9.81 | 95 | 12.28 | 52 | 7.58 | 10.61 |
| 13G RESOURCE USED TO HELP NON-COLLEGE BOUND STUDENTS SELE | CT PROGRAMS | | | | | | |
| A1 OCCUPATIONAL OUTLOOK HANDBOOK | 27 | 5.00 | 23 | 3.44 | 24 | 3 50 | 3.59 |
| AZ DICTIONARY OF OCCUP. TITLES | 6 | 1 11 | 4 | 0 60 | 4 | 0.58 | 0.64 |
| A3 GUIDE FOR OCCUP ENPLOPATION | 3 | 0 56 | 1 | 0.15 | 1 | 0.15 | 0.18 |
| A4 ENCYCL. OF CAREERS AND VOC. GUIDANCE | 7 | 1.30 | 12 | 1 80 | 6 | 0 87 | 1 47 |
| AS I CAN BE ANYTHING. CAREERS AND COLLEGES FOR YO | DUNG W 0 | 0 0 | 0 | 0.0 | ō | 0.0 | 0.0 |
| AS EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 0 | 0 0 | Ó | 0 0 | 0 | 0.0 | 0.0 |
| AT THE NATIONAL APPPENTICESHIP PROGRAM | 9 | 1.67 | 3 | 0.45 | ž | 0.29 | 0.51 |
| AB OCCUP. HANDBOOKS FOR THE MILITARY | 2 | 0.37 | 4 | 0 60 | ā | 0.0 | 0 39 |
| | | | | | | | |



| NUMBER OF OBSERVATIONS | STRATUM1 540 | | STRATUM2 668 | | 5TRATUM3 686 | | HATL EST |
|---|-----------------|-------------|-----------------|-------------|-----------------|------------|--------------|
| ITEMS AND ALTEPNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 136 RESOURCE USED TO HELP NON-COLLEGE BOUND STUDENTS SELECT | PROGRAMS | | | | | | |
| A9 WORKER TRAIT GROUP GUIDE | 1 | 0 19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| Alo OTHER (BOUND REFERENCES) | 3 | 0.56 | 4 | 0.60 | 9 | 1.31 | 0.81 |
| B1 B'HAI B'RITH BRIEFS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| B2 CAREERS, INC. | 4 | 0.74 | 7 | 1.05 | 1 | 0.15 | 0.74 |
| B3 CATALYST PAMPHLETS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| B4 CHRONICLE GUIDANCE | 2 | 0 37 | 11 | 1 65 | 4 | 0.58 | 1.21 |
| B5 SRA BRIEFS | 5 | 0.93 | 4 | 0.60 | 2 | 0.29 | 0.53 |
| BS OCCUP. GUIDANCE BRIEFS | 0 | 0 0 | 2 | 0.30 | 0 | 0.0 | 0.18 |
| B7 GUIDANCE CENTRE MONOGRAPHS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 88 JOB FACT SHEETS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| B9 VOCATIONAL BIOGRAPHIES | Ž | 0.37 | 2 | 0 30 | 0 | 0.0 | 0.21 |
| BIO OCCUP. ERIEFS PUBLISHED BY STATE | 2 | 0.37 | 7 | 1.05 | 3 | 0 44 | 0.80 |
| BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 0 | 0.0 | 2 | 0.30 | 1 | 0.15 | 0.23 0.27 |
| B12 PAMPHLETS PREPARED BY PRIVATE BUSINESS | 3 | 0 56 | 2 | 0 30 | 1 | 0.15 | |
| BI3 WRITE-UPS BY FORMER STUDENTS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 0.73 |
| B14 OTHER (OCCUP. BRIEFS AND KITS) | 3 | 0 56 | 6 | 0.90 | 3 | 0.44 | 0.75 |
| C1 CAREER WORLD | 3 | 0.56 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| C2 DCCUP. IN DEMAND | 0 | 0.0 | 0 | 0.0 | 0 | Q.O | 0.12 |
| C3 OCCUP. DUTLOOK QUARTERLY | 2 | 0 37 | 1 | 0.15 | 0 | 0.0 0.0 | 0.09 |
| C4 REAL HORLD | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.02 |
| CS CIVIL SERVICE EXAM BULLETINS | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.11 |
| C6 OTHER (PERIODICALS) | 1 | 0.19 | 1 | 0 15 | 1 | 0.15 | 0.06 |
| O1 OPPUPTUNITIES IN | 1 | 0.19 | 0 | 0 0 | 0 | 0.19 | 0.0 |
| DZ YOUR CAREER IN | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.17 |
| D3 YOUR FUTURE IN | 2 | 0.37 | 1 | 0.15 | 0 | 0.0 | 0.18 |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP) | 0 | 0.0 | 2 | 0 30 | 2 | 0.0 | 0.25 |
| EL DIRECTORIES OF BUSINESSES | 4 | 0.74 | 1 | 0.15 0.0 | , | 0 0 | 0.02 |
| EZ SCHOOL PREPAPED LISTS OF EMPLOYERS. ETC | 1 | 0 19 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| E3 OTHER (LIST OF EMPLOYERS) | 0 | 0.0 1 11 | 7 | 1.05 | 6 | 0.13 | 1.00 |
| FI COLLEGE DIPECTORIES ARPANGED BY OCCUP. | 6 | 34 63 | 232 | 34 73 | 299 | 43.59 | 37.41 |
| FE VOCATIONAL SCHOOL DIRECTORIES | 187 1 | 0 19 | 1 | 0 15 | 3 | 0.44 | 0.24 |
| F3 A JOB TRAINIG DIRECT, FOR YOUP STAFF | = | 2 22 | 2.5 | 3 29 | 17 | 2.48 | 2.95 |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 12 | 0.0 | | 0.0 | ó | 0.0 | 0.0 |
| G1 CHOICES | 9 | 1.67 | 4 | 0.60 | - | 0 73 | 0.73 |
| es coin | 6 | 1 11 | 1 | 0 15 | 5 | 0.73 | 0.41 |
| G3 CVI5 | 2 | 0.37 | 1 | 0.15 | ő | 0 0 | 0.12 |
| G4 DISCOVER | 24 | 4 44 | 8 | 1 20 | 48 | 7 00 | 3.26 |
| G5 GIS | 12 | 2.22 | 21 | 3.14 | 34 | 4.96 | 3.62 |
| G6 YOUR STATE SYSTEM | 16 | 6.66 | | J. 4 · | • | | ****** |

(CONTINUED)

| NAMBER OF OBSERVATIONS | 5 | STRATUM1 540 | | STRATUMZ 668 | | STRATUM3 686 | |
|---|-------------|-----------------|---------|-----------------|------|-----------------|---------|
| ITEMS AND Alternatives | FOFO | PERCENT | t D F O | PERCENT | FDEA | PERCENT | PERCENT |
| | | , | | FERGEITI | | rencent | FERGERI |
| TITEM CONTINUED) | | | | | | | |
| 136 RESOURCE USED TO HELP NON-COLLEGE BOUND STUDENTS SELE | CT PROGRAMS | | | | | | |
| G7 YOUR SCHOOL OR COUNTY SYSTEM | 3 | 0.56 | 1 | 0.15 | 4 | 0.58 | 0.32 |
| G8 OTHER (COMPUTERIZED INFO. SYSTEMS) | 1 | 0.19 | 3 | 0.45 | 1 | 0.15 | 0.33 |
| HI YOUR OWN SCHOOL MADE A-V EQUIP. | 1 | 0.19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| HE EXTERNALLY FRODUCED A-V EQUIP. | 1 | 0 19 | 3 | 0.45 | 1 | 0.15 | 0.33 |
| H3 OTHER (AUDIO-VISUAL) | 0 | 0.0 | 2 | 0.30 | 0 | 0.0 | 0.18 |
| IL STATE OR REGIONAL MICROFILM | 13 | 2.41 | 18 | 2 69 | 17 | 2.48 | 2.60 |
| IZ LOCAL MICROFILM | 2 | 0.37 | 1 | 0.15 | 1 | 0.15 | 0.17 |
| 13 OTHER (MICROFOPMS) | ξ | 0.37 | 0 | 0.0 | 2 | 0 29 | 0.12 |
| J1 KEY OR MEEDLESORT | 0 | 0.0 | 10 | 1.50 | 3 | 0.44 | 1.04 |
| JE SCORE INTERP GUIDES FOR INVENTORIES | 3 | 0 56 | 0 | 0 0 | 0 | 0 0 | 0.05 |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 0 | 0.0 | 1 | 0 15 | 2 | 0.29 | 0.18 |
| KI COUPSES IN CAREER PLAINIING | 3 | 0.56 | 4 | 0.60 | 10 | 1.46 | 0.86 |
| KZ OCCUP. INFO UNITS IN SUBJECT MATTER CLASSES | 1 | 0 19 | 4 | 0.60 | 5 | 0.73 | 0.60 |
| K3 EXPLORATORY WORK EXPERIENCE | 12 | 2 22 | 4 | 0 60 | 4 | 0.58 | 0.74 |
| K4 CAREER DAYS. SPEAKERS, ETC | 12 | 2 22 | 10 | 1.50 | 9 | 1.31 | 1.50 |
| KS CAPEER CLUBS | 0 | 0 0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| K5 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| K7 JOB SITE TOURS | 2 | 0 37 | 6 | 0 90 | 1 | 0.15 | 0.62 |
| K8 JOB SHADOWING | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K9 CONFERENCES WITH COMMUNITY REPS | 4 | 0 74 | 2 | 0 30 | 4 | 0.58 | 0.43 |
| KID OTHER ISCHOOL ARRANGED EXPERIENCES! | 2 | 0 37 | 5 | 0.75 | 5 | 0.73 | 0.71 |
| L1 SIMULATIONS | 0 | 0.0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| M1 CONFERENCES WITH COUNSELOPS | 23 | 4 26 | 51 | 7 63 | 41 | 5.98 | 6.82 |
| MZ ASSISTANCE FROM OTHER STAFF | 4 | 0 74 | 4 | 0.60 | Z | 0 29 | 0.52 |
| A99 BOUND PEFERENCES | 0 | 0 0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| B99 OCCUPATIONAL BRIEFS AND KITS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| C99 PERIODICALS | 1 | 0 19 | 0 | 0 0 | 0 | 0 0 | 0.02 |
| D99 SERIES OF BOOKS ON INDIV. OCC | 0 | 0.0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 1 | 0 19 | 1 | 0 15 | 1 | 0.15 | 0.15 |
| G99 COMPUTERIZED INFO. SYSTEMS | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| HOO AUDIO-VISUAL MATEPIALS | 1 | 0 19 | 0 | 0 0 | 0 | 0 0 | 0.02 |
| 199 MICROFORNS | 0 | 0.0 | 0 | 0 0 | 9 | 0.0 | 0.0 |
| J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 1 | 0 19 | 0 | 0.0 | Z | 0 29 | 0.11 |
| L99 SIMULATIONS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| MAN PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| NA HOT APPLICABLE | 15 | 2.78 | 14 | 2 10 | 13 | 1.90 | 2.09 |
| DK DON'T KHOW | . 17 | 3.15 | 32 | 4 79 | 11 | 1.60 | 3.66 |
| NO RESPONSE | 61 | 11 30 | 90 | 13.47 | 62 | 9.04 | 11.91 |



| | STRATUM2 668 | | STRATUMS 686 | |
|------|---|------|--|--|
| FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | | | | |
| 224 | 33.53 | 222 | 32.36 | 33.30 |
| 27 | 4.04 | 19 | 2.77 | 3.60 |
| 3 | 0.45 | 0 | 0.0 | 0.27 |
| 17 | 2 54 | 16 | 2.33 | 2.51 |
| 0 | 0.0 | 0 | 0.0 | 0.0 |
| 0 | 0.0 | 0 | 0.0 | 0.0 |
| 0 | 0.0 | 0 | | 0.0 |
| 0 | 0.0 | 0 | 0.0 | 0.0 |
| 2 | 0.30 | 3 | 0 44 | 0.33 |
| 6 | 0 90 | 4 | 0.58 | 0.75 |
| 0 | 0.0 | 0 | 0.0 | 0.0 |
| 9 | 1.35 | 10 | 1 46 | 1.39 |
| 0 | 0.0 | 0 | 0.0 | 0.0 |
| 34 | 5 0 9 | 45 | 6.56 | 5.61 |
| 19 | 2.84 | 12 | 1.75 | 2.32 |
| 7 | | 10 | 1 46 | 1.11 |
| Z | 0.30 | 0 | 0.0 | 0.18 |
| Ō | 0.0 | 0 | 0.0 | 0.0 |
| 3 | 0.45 | 5 | 0 73 | 0.50 |
| 6 | 0.90 | 1 | 0.15 | 0.64 |
| 0 | 0 0 | 0 | 0 0 | 0.02 |
| Ö | 0.0 | 0 | 0.0 | 0.02 |
| 0 | 0 0 | 0 | 0 0 | 0.0 |
| 7 | 1 05 | 7 | 1.02 | 1.03 |
| | | 0 | 0 0 | 0.09 |
| ī | 0.15 | 0 | 0.0 | 0.14 |
| 7 | 0 30 | 1 | 0 15 | 0.24 |
| ō | | 0 | 0 0 | 0.02 |
| 0 | 0 0 | 0 | 0 0 | 0.0 |
| 1 | 0 15 | 1 | 0 15 | 0.17 |
| ō | 0 0 | 1 | 0.15 | 0.04 |
| 1 | 0 15 | 0 | 0 0 | 0.09 |
| ō | 0.0 | 0 | 0.0 | 0.0 |
| 0 | | 0 | 0 0 | 0.0 |
| | | 0 | 0.0 | 0.09 |
| | | 1 | 0.15 | 0.23 |
| | | ī | 0 15 | 0.14 |
| | | 24 | 3.50 | 2.45 |
| | | | 0 29 | 0.68 |
| • | | ō | 0 0 | 0.0 |
| 3 | 0 45 | 4 | 0 58 | 0.47 |
| | 224 27 37 00 00 26 09 00 34 19 72 00 10 10 10 10 10 10 10 11 10 10 10 10 | 27 | 224 33.53 222 27 4.04 19 3 0.45 0 17 2 54 16 0 0.0 0 0 0.0 0 0 0.0 0 0 0.0 0 0 0.0 0 2 0.30 3 6 0 90 4 0 0.0 0 9 1.35 10 0 0.0 0 34 5 09 45 19 2.84 12 7 1.05 10 2 0.30 0 0 0.0 0 3 0.45 5 6 0.90 1 0 0.0 1 0 15 0 0 0 0 0 0 0 0 1 0 15 0 0 0 0 0 0 0 0 1 0 15 0 0 0 0 0 0 0 0 1 0 15 0 0 0 0 0 0 0 0 1 0 15 0 0 0 0 0 0 0 0 1 0 15 0 0 0 0 0 1 0 15 0 0 0 0 0 0 0 0 0 1 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 224 33.53 222 32.36 27 4.04 19 2.77 3 0.45 0 0.0 17 2 54 16 2.33 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 2 0.30 3 0.46 6 0.90 4 0.58 0 0.0 0 0.0 34 5 09 45 6.56 19 2.84 12 1.75 7 1.05 10 1.46 2 0.30 0 0.0 3 0.45 5 0.73 6 0.90 1 0.15 0 0.0 0 0 0.0 0 0.0 0 0 0.0 0 0.0 0 0 0.0 0 0.0 0 0 0 |



18 Jen.

| NUMBE | R OF OBSERVATIONS | | RATUM1 540 | | RATUME 668 | | RATUMS 606 | HATL EST |
|-------|--|--|---------------|------|---------------|------|---------------|----------|
| | ITEMS AND ALTERNATIVES | toto | PERCENT | | BPB6747 | *** | Machin | ******** |
| | ME CENTRALITY OF STREET | ************************************** | PERCENT | rata | PERCENT | FREW | PERCENT | PERCENT |
| | (ITEH CONTINUED) | | | | | | | |
| 144 | RESOURCE AVAILABLE AT SCHOOL FIRST CHOICE FOR HOST VALUA | BLE OVERA | LL | | | | | |
| | 61 CHOICES | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | es coin | 9 | 1 67 | 8 | 1.20 | 7 | 1.02 | 1.18 |
| | G3 CVIS | 4 | 0.74 | 0 | 0.0 | 7 | 1.02 | 0.38 |
| | 64 DISCOVER | 3 | 0 56 | 1 | 0.15 | 0 | 0.0 | 0.14 |
| | 65 GIS | 40 | 7.41 | 19 | 2.84 | 64 | 9.33 | 5.23 |
| | G6 YOUR STATE SYSTEM | 15 | 2 78 | 35 | 5.24 | 56 | 8.16 | 5.92 |
| | G7 YOUR SCHOOL OR COUNTY SYSTEM | 5 | 0.93 | 1 | 0 15 | 4 | 0.58 | 0.35 |
| | GB OTHER (COMPUTERIZED INFO. SYSTEMS) | 4 | 0.74 | 1 | 0.15 | 4 | 0.58 | 0.33 |
| | HI YOUR OWN SCHOOL HADE A-V EQUIP. | 2 | 0.37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| | HZ EXTERNALLY PRODUCED A-V EQUIP. | 11 | 2.04 | 5 | 0.75 | 6 | 0.87 | 0.90 |
| | H3 OTHER (AUDIO-VISUAL) | 0 | 0 0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | Il STATE DR REGIONAL MICROFILM | 24 | 4 44 | 52 | 7 78 | 38 | 5.54 | 6.79 |
| | IZ LOCAL MICROFILM | 3 | 0.56 | 0 | 0.0 | 2 | 0.29 | 0.14 |
| | 13 OTHER (MICROFORMS) | 1 | 0 19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| | J1 KEY OR HEEDLESORT | 2 | 0.37 | 18 | 2.69 | 3 | 0.44 | 1.79 |
| | JZ SCORE INTERP GUIDES FOR INVENTORIES | 0 | 0 0 | 1 | 0.15 | 4 | 0.58 | 0.27 |
| | J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 1 | 0.19 | 3 | 0.45 | 2 | 0.29 | 0.38 |
| | K1 COURSES IN CAREER PLANNING | 6 | 1 11 | 8 | 1.20 | 11 | 1.60 | 1.31 |
| | KZ OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 6 | 1.11 | 5 | 0.75 | 5 | 0.73 | 0.77 |
| | K3 EXPLORATORY WORK EXPERIENCE | 8 | 1.48 | 4 | 0.60 | 7 | 1.02 | 0.81 |
| | K4 CAREER DAYS, SPEAKERS, ETC. | 5 | 0 93 | 4 | 0.60 | 10 | 1.46 | 0.89 |
| | K5 CAREER CLUBS | 1 | 0 19 | 0 | 0 0 | 0 | 0.0 | 0.02 |
| | K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 1 | 0.19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| | K7 JOB SITE TOURS | 4 | 0.74 | 1 | 0.15 | 3 | 0.44 | 0.29 |
| | K8 JOB SHADOWING | 1 | 0.19 | 0 | 0 . D | ž | 0.29 | 0.11 |
| | K9 CONFERENCES WITH CONFIUNITY REPS | 2 | 0.37 | 3 | 0.45 | 0 | 0.0 | 0.30 |
| | K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 4 | 0.74 | 3 | 0 45 | 5 | 0.73 | 0.56 |
| | L1 SIMULATIONS | Ō | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | M1 CONFERENCES WITH COUNSELORS | 5.5 | 4.07 | 38 | 5.69 | 26 | 3.79 | 4.96 |
| | M2 ASSISTANCE FROM OTHER STAFF | 2 | 0.37 | 1 | 0.15 | 1 | 0.15 | 0.17 |
| | A99 BOUND REFERENCES | 5 | 0.93 | 0 | 0.0 | 5 | 0.73 | 0.31 |
| | B99 OCCUPATIONAL BRIEFS AND KITS | 1 | 0.19 | 2 | 0.30 | 1 | 0.15 | 0.24 |
| | C99 PERIODICALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | D99 SERIES OF BOOKS ON INDIV. DCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | E99 LIST OF EMPLOYERS | Đ | 0.0 | 0 | 0.0 | n | 0.0 | 0.0 |
| | F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | G99 COMPUTERIZED INFO. 3YSTEMS | 0 | 0.0 | 0 | 0.0 | Ō | 0.0 | 0.0 |
| | H99 AUDIO-VISUAL MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | 199 MICROFORMS | 0 | 0.0 | ð | 0.0 | 0 | 0.0 | 0.0 |



| MUMBER OF OBSERVATIONS | - | RATUPIL 540 | | SMUTAP 668 | - | RATUMS 686 | FYTE EST |
|---|--------------------|----------------|------|---------------|------|---------------|----------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| | | | | | | | |
| 14A RESOURCE AVAILABLE AT SCHOOL FIRST CHOICE FOR M | DST VALUABLE OVERA | | | | | | |
| J99 HON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 2 | 0 37 | 0 | 0 0 | 0 | 0.0 | 0.03 |
| L99 SIMULATIONS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| NA NOT AFPLICABLE | 2 | 0 37 | 0 | 0 0 | 3 | 0.44 | 0.17 |
| DK DON'T KHOM | 0 | 0 0 | 3 | 0 45 | | 0.29 | 0.34 |
| NO RESPONSE | 36 | 6.67 | 51 | 7.63 | 19 | 2.77 | 6.05 |
| 148 RESOURCE AVAILABLE AT SCHOOL SECOND CHOICE FOR | MOST VALUARIE OVER | A11 | | | | | |
| AL OCCUPATIONAL OUTLOOK HANDBOOK | 84 | 15.56 | 105 | 15.72 | 126 | 18.37 | 16.50 |
| AS DICTIONARY OF OCCUP. TITLES | 41 | 7.59 | 39 | 5.09 | 37 | 5.39 | 5.40 |
| A3 GUIDE FOR OCCUP. EXPLOPATION | 6 | 1.11 | 4 | 0.60 | 1 | 0.15 | 0.50 |
| AN ENCYCL. OF CAREERS AND VOC. GUIDANCE | 22 | 4 07 | 22 | 3.29 | 17 | 2.48 | 3.11 |
| AS I CAN BE ANYTHING: CAREERS AND COLLEGES | | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| AS EMPLOYMENT OPPORTUNITIES FOR THE HANDICA | | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| A7 THE NATIONAL APPRENTICESHIP PROGRAM | 0 | 0 0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| AS OCCUP, HANDBOOKS FOR THE MILITARY | 5 | 0.93 | 3 | 0.45 | • | 0.58 | 0.53 |
| 19 WORKER TRAIT GROUP GUIDE | 3 | 0.56 | 3 | 0.45 | ÷ | 0.58 | 0.50 |
| ALO OTHER (BOUND REFERENCES) | 6 | 1.11 | 5 | 0.75 | 10 | 1.46 | 1.00 |
| BI B'NAI B'RITH BRIEFS | 0 | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| B2 CAREERS, INC. | 16 | 2 96 | 11 | 1.65 | 16 | 2.33 | 1.97 |
| B3 CATALYST PAMPHLETS | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| B4 CHRONICLE GUIDANCE | 37 | 6 85 | 51 | 7.63 | 57 | 8.31 | 7.77 |
| BS SRA BRIEFS | 24 | 4.44 | 31 | 4 64 | 15 | 2.19 | 3.87 |
| 86 OCCUP. GUIDANCE BRIEFS | 4 | 0.74 | 6 | 0.90 | 6 | 0.87 | 0.88 |
| B7 GUIDANCE CENTRE MONOGRAPHS | 1 | 0.19 | 1 | 0 15 | 0 | 0.0 | 0.11 |
| BB JOB FACT SHEETS | 0 | 0.0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| B9 VOCATIONAL BIDGRAPHIES | 3 | 0 56 | 3 | 0.45 | 7 | 1 02 | 0.63 |
| BLO OCCUP BRIEFS PUBLISHED BY STATE | 9 | 1.67 | 9 | 1 35 | 5 | 0.73 | 1.18 |
| B11 PAMPHLETS PREPARED BY PROFESSIONAL ASSO | | 0.56 | 7 | 1 05 | 9 | 1 31 | 1.08 |
| B12 PAMPHLETS PREPARED BY PPIVATE BUSINESS | 0 | 0 0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| B13 WRITE-UPS BY FORMER STUDENTS | 0 | 0,0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| B14 OTHER (OCCUP, BRIEFS AND KITS) | 4 | 0 74 | 8 | 1 20 | 5 | 0 73 | 1.01 |
| C. CAPEER HOPLD | 4 | 0 74 | 9 | 1.35 | 8 | 1.17 | 1.24 |
| CZ OCCUP. IN DEMAND | 0 | 0 0 | 1 | 0 15 | 0 | 0 0 | 0.09 |
| C3 OCCUP. DUTLOOK QUARTERLY | 4 | 0 74 | 3 | 0 45 | 5 | 0.73 | 0.56 |
| C4 REAL HORLD | 0 | 0 0 | 2 | 0.30 | 0 | 0.0 | 0.18 |
| CS CIVIL SERVICE EXAM BULLETINS | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 | 0.0 |
| C6 OTHER (PERIODICALS) | ŋ | 0.0 | 1 | 0.15 | 1 | 0.15 | 0.14 |



ERIC 492

ALL SCHOOLS

| HUMBE | HUMBER OF OBSERVATIONS | | STRATUM1 540 | | STRATUM2 668 | | STRATUMS 686 | |
|-------|---|----------|-----------------|------|-----------------|------|-----------------|---------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (ITEM CONTINUED) | | | | | | | |
| 148 | RESOURCE AVAILABLE AT SCHOOL SECOND CHOICE FOR MOST VALUA | BLE OVER | ALL | | | | | |
| | D1 OPPURTUNITIES IN | 0 | 0 0 | 0 | 0 0 | 2 | 0.29 | 0.09 |
| | DE YOUR CAREER IN | 2 | 0 37 | 2 | 0.30 | 1 | 0.15 | 0.26 |
| | D3 YOUR FUTURE IN | 3 | 0 56 | 2 | 0 30 | 3 | 0.44 | 0.36 |
| | D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 0 | 0 0 | 1 | 0 15 | 1 | 0.15 | 0.14 |
| | EL DIRECTORIES OF BUSINESSES | 0 | 0.0 | 2 | 0.30 | 2 | 0.29 | 0.27 |
| | EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC. | 0 | 0 0 | 2 | 0.30 | 0 | 0.0 | 0.18 |
| | E3 OTHER (LIST OF EMPLOYERS) | 0 | 0.0 | 0 | 0.0 | 0 | 0 0 | 0.0 |
| | F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 34 | 6.30 | 47 | 7.04 | 40 | 5.83 | 6.59 |
| | FE VOCATIONAL SCHOOL DIRECTORIES | 12 | 5 55 | 18 | 2.69 | 25 | 3.64 | 2.94 |
| | F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 4 | 0.74 | 13 | 1 95 | 6 | 0.87 | 1.51 |
| | G) CHOICES | 0 | 0.0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| | es coin | 4 | 0.74 | 1 | 0.15 | 5 | 0 73 | 0.38 |
| | 63 CA12 | 4 | 0.74 | 3 | 0.45 | 5 | 0.29 | 0.43 |
| | G4 DISCOVER | 2 | 0 37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| | es eis | 14 | 2.59 | 10 | 1.50 | 23 | 3.35 | 2.16 |
| | G6 YOUR STATE SYSTEM | 4 | 0 74 | 10 | 1 50 | 17 | 2.48 | 1.73 |
| | 67 YOUR SCHOOL OR COUNTY SYSTEM | 2 | 0.37 | 0 | 0 0 | \$ | 0.29 | 0.12 |
| | GO OTHER (COMPUTERIZED INFO. SYSTEMS) | 2 | 0 37 | 0 | 0.0 | 1 | 0.15 | 0.08 |
| | HI TOUR OWN SCHOOL MADE A-V EQUIP. | 3 | 0.56 | 2 | 0.30 | 3 | 0.44 | 0.36 |
| | HE EXTERNALLY PRODUCED A-V EQUIP. | 10 | 1 85 | 18 | 2.69 | 34 | 4.96 | 3.31 |
| | n3 OTHER (AUDIO-VISUAL) | 1 | 0 19 | 0 | 0 0 | 1 | 0 15 | 0.06 |
| | IL STATE OR REGIONAL MICROFILM | 19 | 3 52 | 30 | 4 49 | 28 | 4.08 | 4.28 |
| | IZ LOCAL MICROFILM | 2 | 0 37 | 1 | 0.15 | 0 | 0 0 | 0.12 |
| | 13 OTHER (MICROFORMS) | 0 | 0 0 | 1 | 0 15 | 3 | 0.44 | 0.22 |
| | JI KEY OR HEEDLESORT | 2 | 0 37 | 10 | 1.50 | 8 | 1.17 | 1.29 |
| | JE SCORE INTEPP GUIDES FOR INVENTORIES | 2 | 0 37 | 7 | 1.05 | 3 | 0.44 | 0.80 |
| | J3 OTHER (MON-COMPUTER SORTING MATERIALS) | 1 | 0 19 | 3 | 0.45 | 1 | 0.15 | 0.33 |
| | K1 COURSES IN CAPEER PLANNING | 8 | 1 48 | 11 | 1.65 | 6 | 0.87 | 1.39 |
| | KZ OCCUP. INFO. UNITS IN SUBJECT MATTER CLASSES | 7 | 1.30 | 12 | 1 80 | 17 | 2.48 | 1.96 |
| | K3 EXPLORATORY WORK EXPERIENCE | 10 | 1 85 | 5 | 0 75 | 13 | 1.90 | 1.20 |
| | K4 CAREER DAYS, SPEAKERS, ETC. | 24 | 4,44 | 29 | 4 34 | 16 | 2.33 | 3 73 |
| | K5 CAPEER CLUBS | 1 | 0 19 | 0 | 0 0 | 1 | 0 15 | 0.06 |
| | K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | K7 JOB SITE TOUPS | 6 | 1 11 | 5 | 0 75 | 4 | 0 58 | 0.73 |
| | K8 JOB SHADOWING | 3 | 0 56 | 2 | 0.30 | 6 | 0.87 | 0.50 |
| | K9 CONFERENCES WITH COMMUNITY REPS | 3 | 0 56 | 4 | 0.60 | 5 | 0.73 | 0.63 |
| | K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | 0 | 0 0 | 1 | 0.15 | 8 | 1.17 | 0.45 |
| | L1 SIMULATIONS | 2 | 0 37 | 1 | 0.15 | 0 | 0.0 | 0.12 |

| NUMBE | R OF OBSERVATIONS | | RATUHL 540 | - | RATUM2 668 | | RATUM3 686 | NATL EST |
|-------|--|--------|---------------|---------------|---------------|---------|---------------|--------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | (IYEM CONTINUED) | | | | | | | |
| 148 | RESOURCE AVAILABLE AT SCHOOL SECOND CHOICE FOR MOST VALUABLE | E OVER | ALL | | | | | |
| | M1 CONFERENCES WITH COUNSELORS | 6 | 1 11 | 7 | 1 05 | 10 | 1 46 | 1.18 |
| | M2 ASSISTANCE FROM OTHER STAFF | 3 | 0.56 | 1 | 0 15 | 1 | 0.15 | 0.18 |
| | A99 BOUND REFERENCES | 2 | 0 37 | 2 | 0 30 | 0 | 0.0 | 0.21 |
| | B99 OCCUPATIONAL BRIEFS AND KITS | 2 | 0.37 | 1 | 0 15 | 0 | 0 0 | 0.12 |
| | C99 PERIODICALS | 0 | 0 0 | 1 | 0 15 | 0 | 0.0 | 0.09 |
| | D99 SERIÉS OF BOOKS ON INDIV. OCC. | 0 | 0.0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| | E99 LIST OF EMPLOTERS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0_ |
| | F99 EDUCATIONAL DIR. FOR OCC. | 1 | 0 19 | 0 | 0 0 | 3 | 0.44 | 0.15 |
| | G99 COMPUTERIZED INFO. SYSTEMS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | H99 AUDID-VISUAL MATERIALS | 2 | 0.37 | 1 | 0 15 | 0 | 0.0 | 0.12 |
| | 199 MICPOFORMS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | K99 SCHOOL ARRANGED EXPERIENCES | 5 | 0 37 | 0 | 0.0 | 0 | 0.0 | 0.03 |
| | L99 SIMULATIONS | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | MP9 PERSONAL CONTACT WITH SCHOOL STAFF | ٥ | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NA NOT APPLICABLE | 1 | 0 19 | 1 | 0.15 | 4 | 0.58 | 0.27 |
| | DK DON'T KNOM | 1 | 0.19 | 3 | 0.45 | 6 | 0.87 | 0.56 |
| | NO RESPONSE | 52 | 9 63 | 75 | 11.23 | 39 | 5.69 | 9.37 |
| 15A | RESOURCE NOT AVAILABLE AT SCHOOL FIRST CHOICE TO ADD IF BUD | GET AL | LOHED | | | | | |
| | AL OCCUPATIONAL OUTLOOK HANDBOOK | 2 | 0 37 | 9 | 1.35 | 1 | 0.15 | 0.89 |
| | AZ DICTIONARY OF OCCUP, TITLES | 7 | 1 30 | 16 | 2.40 | 5 | 0.73 | 1.78 |
| | A3 GUIDE FOR CCCUP. EXPLORATION | 13 | 2 41 | 16 | 2 40 | 9 | 1.31 | 2.06 |
| | A4 ENCYCL, OF CAREERS AND VOC. GUIDANCE | 13 | 2.41 | 28 | 4.19 | 13 | 1.90 | 3.33 |
| | AS I CAN BE ANYTHING: CAREEPS AND COLLEGES FOR YOUNG H | 6 | 1.11 | 7 | 1.05 | 4 | 0.58 | 0.91 |
| | A6 EMPLOYMENT OPPORTUNITIES FOR THE HANDICAPPED | 7 0 | 3 52 | 15 | 2.25 | 24 | 3.50 | 2.74 |
| | AT THE NATIONAL APPRENTICESHIP PROGRAM | 8 | 1 48 | 10 | 1.50 | 4 | 0 58 | 1.21 |
| | AS OCCUP, HANDBOOKS FOR THE HILITARY | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | A9 WORKER TRAIT GROUP GUIDE | 5 | 0 93 | 5 | 0 75 | 7 | 1 02 | 0.85 |
| | Ald OTHER (BOUND REFERENCES) | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0 0 |
| | B1 B'NAT B'RITH BRIEFS | 3 | 0 56 | 5 | 0.75 | 1 | 0.15 | 0 55 |
| | B2 CAREEPS, INC. | 13 | 2 41 | 12 | 1 80 | 5 | 0 73 | 1.52 |
| | B3 CATALYST PAMPHLETS | 1 | 0 19 | 1 | 0 15 | , 1 | 0.15 | 0.15 |
| | B4 CHRCNICLE GUIDANCE | 9 | 1 67 | 14 | 2 10 | 10 | 1.46 | 1.86 |
| | 85 SPA BRIEFS | 19 | 3 52 | 12 | 1 80 | 16 | 2 33 | 2.11 1.18 |
| | B6 OCCUP. GUIDANCE BRIEFS | 6 | 1 11 | 11 | 1 65 | 2 | 0.29 0.44 | 0.35 |
| | B7 GUIDANCE CENTRE MONOGRAPHS | 2 | 0 37 | 2 | 0 30 | 3 | 0.44 | 0.35 |
| | BB JOB ACT SHEETS | 9 | 1.67 | 3 7 | 0 45 | 3 13 | 1.90 | 1.36 |
| | B9 VOCATIONAL BIOGRAPHIES | • | 1.67 | / | 1 05 | 13 | 1.70 | 4.75 |



SCHOOLS

| ER OF OBSERVATIONS | | STRATUM1 540 | | SHUTAP | STRATUH3 686 | | NATL EST | |
|---|-----------|-----------------|------|---------|-----------------|---------|----------|--|
| ITEHS AND | | | | | | | | |
| ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT | |
| (ITEM CONTINUED) | | | | | | | | |
| RESOURCE NOT AVAILABLE AT SCHOOL FIRST CHOICE TO ADD IF E | SUDGET AL | LOWED | | | | | | |
| BIO OCCUP. BRIEFS PUBLISHED BY STATE | 3 | 0 56 | 2 | 0.30 | 1 | 0.15 | 0.27 | |
| BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC. | 0 | 0 0 | 1 | 0.15 | 0 | 0.0 | 0.09 | |
| BIZ PAMPHLETS PREPARED BY PRIVATE BUSINESS | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 | |
| BIT PARPHLETS PREPARED BY PROFESSIONAL ASSOC. B12 PARPHLETS PREPARED BY PRIVATE BUSINESS B13 WRITE-UPS BY FORMER STUDENTS B14 OTHER (OCCUP. BRIEFS AND KITS) C1 CAREER WORLD C2 OCCUP. IN DEHAND C3 OCCUP. OUTLOOK QUARTERLY C4 REAL WORLD C5 CIVIL SERVICE EXAM BULLETINS C6 OTHER (PERIODICALS) D1 OPPURTUNITIES IN D2 YOUR CAREER IN D3 YOUR FUTURE IN D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCUP.) | 3 | 0 56 | 2 | 0 30 | 3 | 0.44 | 0.36 | |
| B14 OTHER (OCCUP. BRIEFS AND KITS) | 1 | 0 19 | 1 | 0.15 | 1 | 0.15 | 0.15 | |
| C1 CAREER WORLD | 3 | 0.56 | 21 | 3.14 | 10 | 1.46 | 2.40 | |
| CZ OCCUP. IN DEMAND | 20 | 3.70 | 6 | 0.90 | 7 | 1.02 | 1.18 | |
| C3 OCCUP. OUTLOOK QUARTERLY | 10 | 1 85 | 8 | 1.20 | 4 | 0.58 | 1.07 | |
| C4 REAL WORLD | 5 | 0 93 | 4 | 0.60 | 5 | 0.73 | 0.67 | |
| C5 CIVIL SERVICE EXAM BULLETINS | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 | |
| C6 OTHER (PERIODICALS) | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| D1 OPPURTUNITIES IN | 3 | 0.56 | 4 | 0 60 | 2 | 0.29 | 0.50 | |
| DE YOUR CAREER IN | ž | 0.37 | 6 | 0.90 | ž | 0.29 | 0.66 | |
| D3 YOUR FUTURE IN | 1 | 0.19 | 1 | 0 15 | 5 | 0.73 | 0.33 | |
| | | | 0 | 0 0 | 0 | 0 0 | 0.0 | |
| El DIRECTORIES OF BUSINESSES | 9 | | 4 | 0 60 | 7 | 1.02 | 0.82 | |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC | 3 | | 4 | 0.60 | 6 | 0.87 | 0.68 | |
| E3 OTHER (LIST OF EMPLOYERS) | 0 | | 0 | 0.0 | 0 | 0.0 | 0.0 | |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | 9 | 1.67 | 7 | 1 05 | 6 | 0.87 | 1.05 | |
| F2 VOCATIONAL SCHOOL DIRECTORIES F3 A JOB TRAINIG DIRECT. FOR YOUR STAFF F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 3 | 0 56 | 7 | 1 05 | 4 | 0.58 | 0.86 | |
| F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF | 1 | 0.19 | 3 | 0.45 | 3 | 0.44 | 0.42 | |
| F4 OTHER (EDUCATIONAL DIRECTORIES FOR OCCUPATIONS) | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 | |
| G1 CHOICES | 4 | 0 74 | 5 | 0 75 | 1 | 0.15 | 0.56 | |
| es coin | 25 | 4.63 | 40 | 5.99 | 34 | 4.96 | 5.55 | |
| G3 CVIS | 53 | 9 81 | 42 | 6.29 | 51 | 7.43 | 6.94 | |
| G4 DISCOVER | 8 | 1.48 | 9 | 1.35 | 9 | 1.31 | 1.35 | |
| G5 GIS | 26 | 4 81 | 42 | 6.29 | 85 | 12.39 | 8.G3 | |
| G6 YOUR STATE SYSTEM | 9 | 1.67 | 37 | 5.54 | 29 | 4.23 | 4.79 | |
| G7 YOUR SCHOOL OR COUNTY SYSTEM | 1 | 0.19 | 3 | 0.45 | 6 | 0.87 | 0.56 | |
| GB OTHER (COMPUTERIZED INFO. SYSTEMS) | 5 | 0.37 | 1 | 0 15 | 9 | 1.31 | 0.53 | |
| HI YOUR OWN SCHOOL MADE A-V EQUIP. | 10 | 1.85 | 14 | 2.10 | 14 | 2.04 | 2.06 | |
| HZ EXTERNALLY PRODUCED A-V EQUIP | 11 | 2.04 | 13 | 1.95 | 15 | 2.19 | 2.03 | |
| G1 CHOICES G2 COIN G3 CVIS G4 DISCOVER G5 GIS G6 YOUR STATE SYSTEM G7 YOUR SCHOOL OR COUNTY SYSTEM G8 DTHER (COMPUTERIZED INFO. SYSTEMS) H1 YOUR OHN SCHOOL HADE A-V EQUIP. H2 EXTERNALLY PRODUCED A-V EQUIP H3 DTHER (AUDIO-VISUAL) I1 STATE OR REGIONAL MICROFILM I2 LOCAL MICROFILM I3 OTHER (MICROFORMS) J1 KEY OR NEEDLESORT | 0 | 0 0 | 1 | 0.15 | 0 | 0.0 | 0.09 | |
| II STATE OR REGIONAL MICROFILM | 19 | 3.52 | 20 | 2.99 | 35 | 4.66 | 3.55 | |
| IZ LOCAL MICROFILM | 7 | 1.30 | 2 | 0.30 | 4 | 0.58 | 0.47 | |
| 13 OTHER (MICROFORMS) | 1 | 0 19 | 0 | 0.0 | 1 | 0.15 | 0.06 | |
| J1 KEY OR NEEDLESORT | 2 | 0 37 | 3 | 0.45 | 5 | 0.73 | 0.53 | |
| JE SCORE INTERP GUIDES FOR INVENTURIES | 1 | 0 19 | 0 | 0.0 | 1 | 0.15 | 0.06 | |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 1 | 0.19 | 0 | 0.0 | 1 | 0.15 | 0.06 | |

ERI Full feat Provided

| MUMBER OF OBSERVATIONS | - | PATUH1 540 | - | RATUM2 668 | - | RATUM3 686 | NATL EST |
|---|------------|---------------|------|---------------|---|---------------|-------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 15A RESOURCE NOT AVAILABLE AT SCHOOL FIRST CHOICE TO ADD IF | BUDGET ALI | LOWED | | | | | |
| K1 COURSES IN CAREER PLANNING | 25 | 4 63 | 19 | 2.84 | 28 | 4.08 | 3.38 |
| K2 OCCUP INFO UNITS IN SUBJECT MATTER CLASSES | 1 | 0 19 | 3 | 0 45 | 6 | 0.87 | 0.56 |
| K3 EXPLORATORY WORK EXPERIENCE | ī | 0 19 | 6 | 0 90 | 6 | 0.87 | 0.83 |
| K4 CAREER DAYS, SPEAKERS, ETC. | ō | 0 0 | Ō | 0 0 | 3 | 0.44 | 0 13 |
| KS CAREER CLUBS | 0 | 0 0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| K6 VOLUNTEER SERVICE ARRANGED BY SCHOOL | ž | 0 37 | ō | 0 0 | 0 | 0.0 | 0.03 |
| K7 JOB SITE TOURS | 7 | 1 30 | 9 | 1 35 | 11 | 1.60 | 1.42 |
| K / JOB SITE TOOKS | 6 | 1 11 | 11 | 1 65 | 14 | 2.04 | 1.72 |
| K9 CONFERENCES WITH COMMUNITY REPS | 1 | 0.19 | 2 | 0 30 | 2 | 0.29 | 0.29 |
| K10 OTHER (SCHOOL ARRANGED EXPERIENCES) | ī | 0 19 | ō | 0 0 | 2 | 0.29 | 0.11 |
| | 5 | 0 93 | 13 | 1.95 | 17 | 2.48 | 2.02 |
| LI SIMULATIONS | í | 0.19 | ž | 0 30 | 1 | 0.15 | 0.24 |
| M1 CONFERENCES WITH COUNSELORS | î | 0 19 | ž | 0 30 | Ž | 0.29 | 0.29 |
| MZ ASSISTANCE FROM OTHER STAFF | i | 0 19 | ò | 0 0 | ō | 0.0 | 0.02 |
| A99 BOUND REFERENCES | 1 | 0 19 | ŏ | 0 0 | Ď | 0.0 | 0.02 |
| B99 OCCUPATIONAL BRIEFS AND KITS | Ô | 0 0 | ō | 0 0 | 0 | 0.0 | 0.0 |
| C99 PERIODICALS | , , | 0.0 | 1 | 0 15 | 1 | 0.15 | 0.14 |
| 099 SERIES OF BOOKS ON INDIV OCC | 0 | 0.0 | i | 0 0 | ō | 0.0 | 0.0 |
| E99 LIST OF EMPLOYERS | 0 | 0 0 | ő | 0 0 | 0 | 0 0 | 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC | 4 | 0.74 | ĭ | 0 15 | 2 | 0.29 | 0.25 |
| G99 COMPUTERIZED INFO SYSTEMS | 2 | 0.74 | i | 0 15 | ō | 0.0 | 0.12 |
| H99 AUDIO-VISUAL MATERIALS | , | 0 0 | Ô | 0 0 | i | 0.15 | 0.04 |
| 199 MICROFORMS | 0 | 0.0 | ŏ | 0.0 | ō | 0.0 | 0.0 |
| J99 NON-COMPUTERIZED SORTING MATERIALS | 0 | 0.0 | 1 | 0 15 | i | 0.15 | 0.14 |
| K99 SCHOOL ARRANGED EXPERIENCES | 0 | 0 0 | ô | 0 0 | ō | 0 0 | 0.0 |
| L99 SIMULATIONS | 0 | 0 0 | 0 | 0 0 | ō | 0.0 | 0.0 |
| M79 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 1 | 0 15 | 9 | 1.31 | 0.49 |
| NA NOT APPLICABLE | 10 | 1.85 | 21 | 3 14 | 18 | 2.62 | 2.87 |
| DK DON'T KNOW | 70 | 12 95 | 86 | 12.87 | 77 | 11.22 | 12.36 |
| NO RESPONSE | / 0 | 16 75 | 00 | 16.0 | • | | |
| 158 RESOURCE NOT AVAILABLE AT SCHOOL SECOND CHOICE TO ADD 1 | F BUDGET A | LLOWED | | | | | |
| AL OCCUPATIONAL DUTLOOK HANDBOOK | ż | 0 37 | 3 | | 2 | 0 29 | 0.39 |
| AZ DICTIOHARY OF OCCUP TITLES | 1 | 0 19 | 11 | 1 65 | 1 | 0 15 | 1.06 |
| AS GUIDE FOR OCCUP. EXPLOPATION | 12 | 5 25 | 17 | 2 54 | 10 | 1.46 | 2.18 |
| A4 EHCYCL. OF CAREERS AND VOC GUIDANCE | 12 | 2 22 | 14 | 2 10 | 7 | 1 02 | 1.77 |
| AS I CAN BE ANYTHING CAREEPS AND COLLEGES FOR YOUR | 4G W 5 | 0.93 | 3 | 0.45 | 4 | 0.58 | 0.53 |
| AS EMPLOYMENT OPPORTUNITIES FOR THE MANDICAPPED | 14 | 2 59 | 24 | 3 59 | 18 | 2.62 | 3,20 |
| AT THE NATIONAL APPRENTICESHIP PROGRAM | 7 | 1 30 | 3 | 0 45 | 13 | 1 90 | 0.97 |
| AS OCCUP HANDBOOKS FOR THE MILITARY | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| HA APPAL HUMBERSHE LENGTH - 1942 - 1942 | | | | | | i | CONTINUED I |



I CONTINUED !

| NUMBER OF OBSERVATIONS | | STRATUM) 540 | | RATUM2 668 | STRATUMS 686 | | HATL EST | |
|---|-------------------|-----------------|---------|---------------|-----------------|---------|--------------|--|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT | |
| (ITEM CONTINUED) | | | | | | • · - • | | |
| 158 RESOURCE NOT AVAILABLE AT SCHOOL SECOND CHOICE TO | O ADD IF BUDGET A | LLOWED | | | | | | |
| A9 WORKER TRAIT GROUP GUIDE | 8 | 1.48 | 6 | 0.90 | 4 | 0.87 | 0.94 | |
| ALO OTHER (BOUND REFERENCES) | 0 | 0.0 | ī | 0.15 | Ď | 0.0 | 0.09 | |
| B1 B'NAI B'RITH BRIEFS | 6 | 1 11 | 3 | 0 45 | 6 | 0.87 | 0.64 | |
| BE CAREERS, INC. | 8 | 1.48 | 7 | 1 05 | 7 | 1.02 | 1.08 | |
| B3 CATALYST PAMPHLETS | ż | 0 37 | | 0.0 | | 0.0 | 0.03 | |
| 84 CHRONICLE GUIDANCE | 12 | 2 22 | 11 | 1 65 | Ž. | 0.58 | 1.37 | |
| B5 SPA BRIEFS | 10 | 1 85 | 16 | 2.40 | 12 | 1.75 | 2.15 | |
| 86 OCCUP GUIDANCE BRIEFS | 9 | 1 67 | 8 | 1.20 | 5 | 0.73 | 1.09 | |
| B7 GUIDANCE CENTRE MONOGRAPHS | 5 | 0.93 | 3 | 0.45 | 3 | 0.44 | 0.49 | |
| BB JOB FACT SHEETS | 5 | 0 93 | 9 | 1 35 | 9 | 1.31 | 1.30 | |
| B9 VOCATIONAL BIOGRAPHIES | 12 | 2 22 | 9 | 1 35 | 14 | 2.04 | 1.64 | |
| BIO OCCUP. BRIEFS PUBLISHED BY STATE | 3 | 0.56 | ì | 0 15 | | 0.0 | 0.14 | |
| BIL PAMPHLETS PREPARED BY PROFESSIONAL ASSOC | | 0.37 | Ô | 0.0 | ĭ | 0.15 | 0.03 | |
| BIZ PAMPHLETS PREPARED BY PRIVATE BUSINESS | ž | 0 37 | ž | 0 30 | 1 | 0.15 | 0.26 | |
| BIS MAITE-UPS BY FORMER STUDENTS | ž | 0 37 | ì | 0.15 | 4 | 0.58 | 0.30 | |
| B14 OTHER (OCCUP. BRIEFS AND KITS) | ì | 0 19 | į | 0.30 | ì | 0.15 | 0.24 | |
| C1 CAREER WORLD | 7 | 1 30 | 16 | 2.40 | 16 | 2.33 | 2.28 | |
| CZ OCCUP. IN DEMAND | 15 | 2 78 | 24 | 3.59 | 18 | 2.62 | 3.22 | |
| C3 OCCUP. DUTLOOK QUARTERLY | 11 | 2 04 | 10 | 1.50 | 11 | 1.60 | 1.58 | |
| C4 REAL MORLD | 5 | 0 93 | 17 | 2.54 | 9 | 1.31 | 2.02 | |
| CS CIVIL SERVICE EXAM BULLETINS | 5 | 0 93 | 3 | 0.45 | 3 | 0 44 | 0.49 | |
| C6 OTHER (PERIODICALS) | ĩ | 0.19 | Ó | 0.45 | ó | 0.0 | 0.02 | |
| 01 OPPURTUNITIES IN | | 1.11 | ž | 0.30 | 4 | 0.58 | 0.46 | |
| DE YOUR CAREER IN | 5 | 0 93 | 5 | 0.30 | • | 1 31 | 0.94 | |
| D3 YOUR FUTURE IN | 6 | 1 11 | ž | 0.73 | 5 | 0.73 | 0.50 | |
| D4 OTHER (SERIES OF BOOKS ON INDIVIDUAL OCCU | | 0 0 | ٥ | 0 0 | 0 | 0.0 | 0.50 | |
| EL DIRECTOPIES OF BUSINESSES | 9 | 1 67 | 12 | 1 80 | å | 1.17 | 1.59 | |
| EZ SCHOOL PREPARED LISTS OF EMPLOYERS, ETC | , 5 | 0 93 | 6 | 0 90 | 6 | 0.87 | 0.89 | |
| E3 OTHER (LIST OF EMPLOYERS) | ó | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 | |
| F1 COLLEGE DIRECTORIES ARRANGED BY OCCUP. | ž | 0 37 | 6 | 0.90 | 5 | 0.73 | 0.80 | |
| F2 VOCATIONAL SCHOOL DIRECTORIES | 11 | 2 04 | • | 1.35 | 10 | 1.46 | 1.44 | |
| F3 A JOB TRAINIG DIRECT, FOR YOUR STAFF | 6 | 1 11 | 5 | 0 75 | . 6 | 0.87 | 0.82 | |
| F4 OTHER CEDUCATIONAL DIRECTORIES FOR OCCUPAT | _ | 0.0 | 0 | 0.0 | 0 | 0.0 | | |
| G1 CHOICES | 5 | 0.0 | 4 | 0.60 | 2 | 0.0 | 0.0 0.53 | |
| GS COIN | 20 | 3 70 | 17 | 2.54 | 23 | 3 35 | | |
| G3 CVIS | 17 | 3 15 | 32 | 4.79 | 35 | 5 10 | 2.89 4.74 | |
| G4 DISCOVER | 1 / 5 | 0.93 | ος 5 | 0.75 | 5 | 0.87 | 0.80 | |
| G5 GIS | 16 | 2.96 | 15 | 2.25 | 26 | 3,79 | 2.78 | |
| G6 YOUR STATE SYSTEM | 6 | 1.11 | 13 | | | | | |
| DO TOUR STRIE STATES | • | 1.11 | 13 | 1.95 | 11 | 1.60 | 1.77 | |

| MUMBER OF OBSERVATIONS | | RATUM1 540 | - | RATUM2 668 | | RATUM3 686 | HATL EST |
|--|--------------------|---------------|------|---------------|-----------|---------------|------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 158 RESOURCE NOT AVAILABLE AT SCHOOL SECOND CHOICE | TO ADD IF BUDGET A | LLOWED | | | | | |
| G7 YOUR SCHOOL OR COUNTY SYSTEM | 1 | 0 19 | 1 | 9.15 | 3 | 0.44 | 0.24 |
| GA OTHER (COMPUTERIZED INFO. SYSTEMS) | 0 | 0 0 | 3 | 0 45 | 1 | 0.15 | 0.32 |
| HI YOUR OWN SCHOOL MADE A-V EQUIP. | 8 | 1 48 | 16 | 2 40 | 2.5 | 3.21 | 2.56 |
| H2 EXTERNALLY PRODUCED A-V EQUIP. | 12 | 2 22 | 19 | 2 84 | 20 | 2.92 | 2.61 |
| H3 OTHER (AUDIO-VISUAL) | 0 | 0 0 | 0 | 0 0 | 1 | 0.15 | 0.04 |
| IL STATE OR REGIONAL MICROFILM | 16 | 2 96 | 17 | 2 54 | 19 | 2.77 | 2.65 |
| 12 LOCAL MICROFILM | 12 | 2.22 | 5 | 0.75 | 8 | 1.17 | 1.01 |
| I3 OTHER (MICROFORMS) | 1 | 0 19 | 0 | 0 0 | 1 | 0.15 | 0.06 |
| J1 KEY OR NEEDLESORT | 7 | 1 30 | 6 | 0 90 | 9 | 1.31 | 1.06 |
| J2 SCORE INTERP GUIDES FOR INVENTORIES | 3 | 0 56 | 0 | 0 0 | 1 | 0 15 | 0.09 |
| J3 OTHER (NON-COMPUTER SORTING MATERIALS) | 0 | 0.0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| K1 COURSES IN CAREER PLANNING | 17 | 3.15 | 20 | 2 99 | 24 | 3.50 | 3.16 |
| KE OCCUP. INFO UNITS IN SUBJECT MATTER CLA | SSES 9 | 1 67 | 5 | 0 75 | 6 | 0.87 | 0.87 |
| K3 EXPLORATORY WORK EXPERIENCE | 1 | 0 19 | 12 | 1 80 | 4 | 0.58 | 1.28 |
| K4 CAREER DAYS, SPEAKERS, ETC. | 2 | 0 37 | 0 | 0 0 | 4 | 0.58 | 0.21 |
| KS CAPEER CLUBS | 3 | 0 56 | 0 | 0 0 | 1 | 0 15 | 0.09 |
| K6 VOLUNTEER SERVICE ARPANGED BY SCHOOL | 0 | 0 0 | 2 | 0 30 | 2 | 0.29 | 0.27 |
| K7 JOB SITE TOURS | 5 | 0.93 | 13 | 1 95 | 15 | 2.19 | 1.93 |
| K8 JOB SHADOWING | 9 | 1.67 | 15 | 2 25 | 20 | 2 92 | 2.40 |
| K9 CONFERENCES WITH CONTUNITY REPS | 1 | 0.19 | 5 | 0.75 | 4 | 0.58 | 0 65 |
| KIO OTHER (SCHOOL ARRANGED EXPERIENCES) | 1 | 0 19 | 0 | 0 0 | 3 | 0.44 | 0.15 |
| L1 SIMULATIONS | 11 | 2 04 | 11 | 1 65 | 24 | 3 50 | 2.25 |
| H1 CONFERENCES WITH COUNSELORS | 0 | 0.0 | 1 | 0 15 | 1 | 0 15 | 0.14 |
| M2 ASSISTANCE FROM OTHER STAFF | 1 | 0 19 | 2 | 0 30 | 2 | 0 29 | 0.29 |
| A99 BOUND REFERENCES | 1 | 0.19 | Ō | 0 0 | 0 | 0.0 | 0.02 |
| 899 OCCUPATIONAL BRIEFS AND KITS | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| C99 PERIODICALS | 1 | 0 19 | 1 | 0 15 | 0 | 0.0 | 0 11 |
| D99 SERIES OF BOOKS ON INDIV OCC | 1 | 0 19 | 0 | 0 0 | 1 | 0.15 | υ 06 2 |
| E99 LIST OF EMPLOYERS | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 0.0 |
| F99 EDUCATIONAL DIR. FOR OCC. | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.26 |
| G99 COMPUTERIZED INFO SYSTEMS | 5 | 0 37 | 1 | 0 15 | 3 | 0 44 | 0.26 |
| H99 AUDIO-VISUAL MATEPIAL | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0.0 |
| 199 MICPOFORMS | 0 | 0 0 | 1 | 0 15 | Ü | 0.15 | 0.06 |
| J99 NON-COMPUTERIZED SORTING MATERIALS | 1 | 0 19 | 0 | 0 0 | 1 | 0.15 | 0.0 |
| K99 SCHOOL ARRANGED EXPERIENCES | 0 | 0.0 | 0 | 0.0 | 0 | 0 0 | 0.0 |
| L99 SIMULATION | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| M99 PERSONAL CONTACT WITH SCHOOL STAFF | 0 | 0.0 | 0 | 0.0 | 9 | 1.31 | 0.62 |
| NA NOT APPLICABLE | . ? | 0 37 | \$ | 0.30 | - | 2 33 | 2.61 |
| DK DON'T KNOH | 11 | 2 04 | 19 | 2.84 | 16 120 | 17.49 | 19.08 |
| NO RESPONSE | 98 | 18 15 | 134 | 20.06 | 150 | 11,77 | 17.00 |

502 ERIC

(CONTINUED)

ALL SCHOOLS

| UB | R OF OBSERVATIONS | S1 | RATUM1 540 | _ | SMUTAPI 868 | | RATUMS 686 | HATL EST |
|-----|---|-------------------------|---------------|------|----------------|------|---------------|-------------|
| | IYEHS AND | | | | | | | |
| | ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 16 | DOES SCHOOL HAVE OCCUPATIONAL INFORMATION | IN PUBLISHED FORM > | | | | | | |
| | YES | 455 | 84.26 | 552 | 82.63 | 451 | 87.61 | 84.22 |
| | NO | 85 | 5.19 | 46 | 6.89 | 54 | 3.79 | 5.7A |
| | NOY APPLICABLE | 1 | 0.19 | 0 | 0.0 | 6.0 | 0.0 | |
| | DON'T KNOW | i | 0 0 | ŏ | 0.0 | 0 | 0.0 | 9.02 |
| | NO RESPONSE | 56 | 10.37 | 70 | 10.48 | 59 | 8.60 | 0.0 7.68 |
| 17A | HOM HANY COPIES OF 78-79 OCCUPATIONAL DUTLE | DOK HANDBOOK DO YOU HAV | ŧ, | | | | | |
| | HOHE | 21 | 3.89 | 51 | 7.63 | 16 | 2.33 | 5.47 |
| | ONE | 79 | 14.63 | 182 | 27.25 | 102 | 14.67 | 22.31 |
| | THO | 102 | 18 89 | 130 | 19.46 | 125 | 18.22 | 19.01 |
| | THREE | 43 | 7.95 | 70 | 10.48 | 71 | 10.35 | 10.21 |
| | FOUR | 36 | 6.67 | 31 | 4.64 | 64 | 9.33 | 4.25 |
| | FIVE OR HORE | 156 | 28.89 | 68 | 10.18 | 222 | 32.36 | 18.63 |
| | MOT APPLICABLE | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 50.0 |
| | DON'T KNOW | 0 | 0.0 | ŏ | 0 0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 102 | 18.89 | 136 | 20.36 | 86 | 12.54 | 17.81 |
| 178 | HOM MANY COPIES OF 76-77 OCCUPATIONAL DUTLE | XXX MANDBOOK DO YOU HAV | Į, | | | | | |
| | NONE | 28 | 5.19 | 59 | 8.83 | 29 | 4.23 | 7.09 |
| | OHE | 85 | 15.74 | 180 | 26 95 | 99 | 14.43 | 22.09 |
| | THO | 6.7 | 12.41 | 67 | 10.03 | 86 | 12.54 | 11.00 |
| | THREE | 33 | 6.11 | 34 | 5.09 | 40 | 5.83 | 5.40 |
| | FOUR | 2.7 | 5.00 | 9 | 1.35 | 27 | 3.94 | 2.46 |
| | FIVE DR HORE | 53 | 9.61 | 15 | 2.25 | 68 | 9.91 | 5.26 |
| | NOT APPLICABLE | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | DON'T KHOW | - | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 246 | 45.56 | 304 | 45.51 | 337 | 49.13 | 46.38 |
| 17C | HOM MANY COPIES OF 74-75 OCCUPATIONAL OUTLO | OK HANDBOOK DO YOU HAV | E? | | | | | |
| | NONE | 71 | 13.15 | 101 | 15.12 | 69 | 10.06 | 13.38 |
| | OHE | 60 | 11 11 | 103 | 15.42 | 65 | 9.48 | 13.20 |
| | THO | 29 | 5 37 | 40 | 5.99 | 49 | 7.14 | 6.28 |
| | THPEE | 19 | 3.52 | .5 | 2 25 | 6 | 0.87 | 1.93 |
| | FCUR | 13 | 2.41 | 3 | 0.45 | 9 | 1.31 | 0.89 |
| | FIVE OR MORE | 19 | 3.52 | 7 | 1 05 | 20 | 2.92 | 1.84 |
| | NOT APPLICABLE | 1 | 0 19 | Ö | 0.0 | 0 | 0.0 | 0.02 |
| | DON'T KNOW | 1 | 0.19 | Ō | 0.0 | ŏ | 0.0 | 0.02 |
| | NO RESPONSE | 327 | 60.56 | 399 | 59.73 | 468 | 68.22 | 62.35 |



ALL SCHOOLS

| HUMBE | ER OF OBSERVATIONS | , 51 | RATUM1 540 | | RATUM2 568 | | 18ATUH3 686 | HATL EST |
|-------|--|-----------------|---------------|------|---------------|------|----------------|-------------|
| | ITEMS AND | | | | | | | |
| | ALTEPHATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 170 | HOW MANY COPIES OF 73/EARLIER OCCUPATIONAL OUTLOOK | HANDBOOK DO YO | U HAVE? | | | | | |
| | NONE | 93 | 17.22 | 120 | 17.96 | 88 | 12.83 | 16.30 |
| - | OHE | 36 | 6.67 | 68 | 10.18 | 37 | 5.39 | 8.39 |
| | TNO | 18 | 3.33 | 20 | 2.99 | 27 | 3.94 | 3.31 |
| | THREE | 9 | 1.67 | 6 | 0.90 | 4 | 0.58 | 0.87 |
| | FOUR | 10 | 1 85 | 2 | 0.30 | 4 | 0.58 | 0.52 |
| | FIVE OR MORE | 15 | 2 78 | 6 | 0.90 | 14 | 2.04 | 1.41 |
| | NOT APPLICABLE | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | DON'T KHOM | 1 | 0 19 | 1 | 0.15 | 0 | 0.0 | 0.11 |
| | HO RESFONSE | 357 | 66 11 | 445 | 66.62 | 512 | 74.64 | 68.97 |
| 18 | HOM OFTEN OCC INFO PUBLICATIONS REVIEWED TO REMOVE | OBSOLETE MATER | IAL? | | | | | |
| | NEVER | 26 | 4.81 | 37 | 5.54 | 25 | 3.64 | 4.89 |
| | LESS THAN ONCE A YEAR | 132 | 24 44 | 177 | 26.50 | 152 | 22.16 | 24.96 |
| | ONCE A YEAR | 285 | 52 78 | 340 | 50.90 | 409 | 59.62 | 53.69 |
| | MORE THAN ONCE A YEAR | 56 | 10.37 | 54 | 8.08 | 69 | 10.06 | 8.88 |
| | NOT APPLICABLE | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | DON'T KNOW | 0 | 0.0 | 1 | 0.15 | 0 | 0.0 | 0.09 |
| | NO RESPONSE | 40 | 7.41 | 59 | 8.83 | 31 | 4.52 | 7.37 |
| 19 | DOES SCHOOL HAVE TERMINALS/PRINTERS TO GET DCC INF | O FROM A COMPUT | ER? | | | | | |
| | YES | 150 | 27.78 | 109 | 16.32 | 260 | 37.90 | 23.94 |
| | NO | 375 | 69.44 | 535 | 80.09 | 420 | 61.22 | 73.28 |
| | NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | DOH'T KHOW | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 15 | 2.78 | 24 | 3.59 | 6 | 0.87 | 8.68 |
| 20 | DID SCHOOL EVER HAVE COMPUTERIZED OCCUPATIONAL INF | ORMATION SYSTEM | 3 | | | | | |
| | YES | 26 | 4 81 | 26 | 3 89 | 36 | 5.25 | 4.39 |
| | NO | 305 | 60.19 | 478 | 71.56 | 361 | 52 62 | 64.67 |
| | HOT SUPE | 7 | 1.30 | 7 | 1.05 | 6 | 0.87 | 1.02 |
| | NOT APPLICABLE | 0 | 0.0 | 1 | 0.15 | 0 | 0 0 | 0.09 |
| | DOM.I KHOM | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | NO PESFONSE | 182 | 33 70 | 156 | 23.35 | 283 | 41.25 | 29.74 |
| | | | | | | | 1.0 | ONT INDED) |



| HUMBE | R OF OBSERVATIONS | 51 | TRAT | | | RATUM2 668 | _ | RATUH3 666 | HATL EST |
|-------|---|----------------------------|-------|-------|------|---------------|------|---------------|----------|
| | ITEMS AND | | | | | | | | |
| | ALTERNATIVES | FREQ | PE | RCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 214 | PERCENT OF SYSTEM USE BY STUDENTS UNASS | ISTED AT TERMINAL TO GET | INFO |) | | | | | |
| | 61+ X | 7 | | 1 30 | 8 | 1.20 | 21 | 3.06 | 1.78 |
| | 61 - 80 X | 17 | | 3.15 | 2.2 | 3.29 | 26 | 3.79 | 3.43 |
| | 41 - 60 X | 15 | | 2 78 | 21 | 3.14 | 34 | 4.96 | 3.66 |
| | 21 - 40 % | 17 | | 3 15 | 7 | 1.05 | 32 | 4.66 | 2.34 |
| | 1 - 20 % | 35 | | 6.48 | 28 | 4.19 | 67 | 9.77 | 6.10 |
| | 0 X | 24 | | 4 44 | 7 | 1 05 | 35 | 5.10 | 2.59 |
| | NOT APPLICABLE | 0 | | 0 0 | Ó | 0.0 | 9 | 0.0 | 0.0 |
| | DON'T KNOW | 1 | | 0 19 | 0 | 0.0 | - | 0.0 | |
| | NO RESPONSE | 424 | | 8.52 | 575 | | 3 | | 0.11 |
| | no Regronde | 424 | , | 0.34 | 3/3 | 86.08 | 469 | 68.37 | 79.89 |
| 218 | PERCENT OF SYSTEM USE BY STUDENTS ASSIS | TED AT TERMINAL TO GET INF | FO | | | | | | |
| | 81+ X | 17 | | 3.15 | 14 | 2.10 | 37 | 5.39 | 3.20 |
| | 61 - 80 X | 20 | | 3.70 | 4 | 0.60 | 26 | 3.79 | 1.85 |
| | 41 - 60 X | 24 | | 4.44 | 12 | 1.80 | 42 | 6.12 | 3.36 |
| | 21 - 40 X | 21 | | 3 89 | 25 | 3.79 | 43 | 6.27 | 4.53 |
| | 1 + 20 % | 31 | | 5 74 | 40 | 5.99 | 69 | 10.06 | 7.21 |
| | 0 X | 12 | | 2 22 | 4 | 0.60 | 11 | 1.60 | 1.05 |
| | NOT APPLICABLE | 0 | | 0 0 | 0 | 0.0 | 1 | 0 15 | 0.04 |
| | DON'T KNON | 1 | | 0 19 | 0 | 0.0 | ż | 0.29 | 0.11 |
| | NO RESPONSE | 414 | | 6.67 | 569 | 85.18 | 455 | 66.33 | 78.56 |
| | ******** *** ************************* | | | | | | | | |
| \$1C | PERCENT OF SYSTEM USE BY STAFF TO GET I | | | | | | | _ | |
| | 81+ // | 23 | | 4.07 | 8 | 1.20 | 25 | 3 64 | 2.20 |
| | 61 - 80 / | 4 | | 0.74 | 2 | 0 30 | 9 | 1.31 | 0.65 |
| | 41 - 60 X | 4 | | 0.74 | 2 | 0.30 | 12 | 1.75 | 0.78 |
| | 21 - 40 X | 6 | | 1 11 | 7 | 1 05 | 21 | 3 06 | 1.67 |
| | 1 - 20 / | 68 | 1 | 2 59 | 52 | 7 78 | 121 | 17.64 | 11.22 |
| | 0 % | 15 | | 2.78 | 12 | 1.80 | 13 | 1.90 | 1.91 |
| | NOT AFPLICABLE | Ò | | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | DON'T KNOW | 1 | | 0.19 | 0 | 0.0 | 3 | 0.44 | 0.15 |
| | NO RESPONSE | 420 | 7 | 7.78 | 585 | 87.57 | 482 | 70.26 | 81.31 |
| 22 | YEAR TO WHICH HAGE/SALARY INFO IN COMPU | TERIJEN NCC INEN SYSTEM AR | PD1 7 | t e | | | | | |
| | 1978-79 | 114 | | 1.11 | 77 | 11.53 | 201 | 29.30 | 17.82 |
| | 1976-77 | 13 | - | 2 41 | 13 | 1 95 | 27 | 3.94 | 2.60 |
| | 1974-75 | 2 | | 0 37 | 1 | 0 15 | 0 | 0 0 | 0.12 |
| | 1973- EARLIER | 1 | | 0.19 | ō | 00' | ì | 0 15 | 0.06 |
| | NOT APPLICABLE | î | | 0 19 | ō | 0.0 | ô | 0 0 | 0.02 |
| | DOT'T KNOH | 15 | | 2 78 | 17 | 2.54 | 20 | 2.92 | 2.68 |
| | NO RESPONSE | 394 | | 2.96 | 560 | 83.83 | 437 | 63.70 | 76.61 |
| | riw in a wriwn wa | 374 | , | £. 70 | 260 | دن. دن | 43/ | 03.70 | 10.01 |



ALL SCHOOLS

| HUMBI | ER OF OBSERVATIONS | * | RATUM) 540 | | RATUMZ 668 | | RATUM3 686 | NATL EST |
|-------|--|-----------------------|---------------|------|---------------|-------|---------------|--------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| | | | | | | | | |
| 23 | ARE THERE ANY TERMINALS FOR THE COMPUTERIZED | | | | == | | | |
| | YES | 141 | 26 11 | 96 | 14.37 | 533 | 33 97 | 21.41 |
| | NO | 8 | 1 48 | 11 | 1.65 | 23 | 3.35 | 2.15 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | OON'T KNOW | | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 76.34 |
| | NO RESPONSE | 391 | 72 41 | 561 | 83.98 | 430 | 62.68 | 70.34 |
| 24 | NUMBER OF TERMINALS IN SCHOOL FOR STUDENT US | E TO GET OCC INFO | | | | | | |
| _ | 11+ | 0 | 0.0 | 0 | Q.O | 2 | 0.29 | 0.09 |
| | 9 - 10 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | 7 - 8 | 2 | 0 37 | 0 | 0.0 | 3 | 0.44 | 0.17 |
| | 5 - 6 | 3 | 0.56 | 0 | 0.0 | 5 | 0.73 | 0.27 |
| | 3 - 4 | 9 | 1 67 | 5 | 0 75 | 18 | 2.62 | 1.40 |
| | 1 - 2 | 120 | 22.22 | 90 | 13.47 | 200 | 29.15 | 19.04 |
| | 0 | 5 | 0 93 | 0 | 0 0 | 1 | 0 15 | 0.13 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | DON'T KHOM | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 401 | 74.26 | 573 | 85.78 | 457 | 66.62 | 78.80 |
| | AVERAGE HOURS/DAY TERMINAL AVAILABLE FOR STU | NEWT HEE TO SET OFF T | NEV | | | | | |
| 25A | 10.01+ | 3 | 0.56 | 5 | 0.75 | 8 | 1.17 | 0.86 |
| | 8.01 - 10.00 | ī | 0.19 | 5 | ¢ 75 | 9 | 1.31 | 0.87 |
| | 6 01 - 8.00 | 55 | 10 19 | 42 | 6.29 | 107 | 15.60 | 9.48 |
| | 4 01 - 6.00 | 49 | 9.07 | 13 | 1.95 | 55 | 8.02 | 4.44 |
| | 2.01 - 4.00 | 10 | 1.85 | 17 | 2.54 | 27 | 3.94 | 2.91 |
| | .01 - 2.00 | 7 | 1.30 | 12 | 1.80 | 18 | 2.62 | 2.00 |
| | 0.00 | 10 | 1.85 | 0 | 0.0 | 3 | 0.44 | 0.30 |
| | NOT APPLICABLE | Ö | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | DON'T KNOW | 1 | 0 19 | 1 | 0.15 | 2 | 0.29 | 0.20 |
| | NO RESPONSE | 404 | 74.81 | 573 | 85.78 | 457 | 66.62 | 78.85 |
| | AVERAGE HOURS/DAY TERMINALS USED BY STUDENTS | TO SET OCC TUEN | | | | | | |
| 258 | 10.01+ | 0 | 0.0 | 0 | 0.0 | 0 | 0 0 | 0.0 |
| | 8 01 - 10.00 | Ŏ | 0.0 | ì | 0.15 | ō | 0.0 | 0.09 |
| | 6.01 - 8.00 | 13 | 2.41 | 5 | 0.75 | 26 | 3.79 | 1.83 |
| | 6.01 - 6.00 4 01 - 6.00 | 21 | 3.89 | 12 | 1 80 | 52 | 7.58 | 3.75 |
| | 2.01 - 4.00 | 32 | 5.93 | 21 | 3.14 | 48 | 7 00 | 4.57 |
| | .01 - 2.00 | 40 | 7.41 | 42 | 6.29 | 69 | 10.06 | 7.54 |
| | 0.00 | 15 | 2.78 | 5 | 0.75 | 11 | 1.60 | 1.19 |
| | NOT APPLICABLE | Ô | 0.0 | ó | 0 0 | 1 | 0.15 | 0.04 |
| | DON'T KHOM | 3 | 0.56 | 2 | 0.30 | à | 1.17 | 0.59 |
| | NO PESPONSE | 416 | 77.04 | 580 | 86.83 | 471 | 68 66 | 80.30 |
| | riger (grown g | 720 | • • | | | • • • | | |

510 ERIC

| HUMB(| ER OF OBSERVATIONS | \$1 | RATUM1 540 | | RATUM2 668 | | RATUMS 686 | HATL EST |
|-------|--|--------------------|---------------|------|---------------|------|---------------|----------|
| | ITEMS AND ALTERNATIVES | E8E0 | PERCENT | EB50 | PERCENT | 5050 | PERCENT | PERCENT |
| | WEICKWAITACS | FREW | PERCENI | rnew | PERCENT | FREM | PERCENT | PERCENI |
| 26 | HOW ARE STUDENTS SCHEDULED TO USE TERMINAL TO GE | T OCC INFO? | | | | | | |
| | STUDENT INITIATED REQUEST | 120 | 22 22 | 79 | 11.83 | 201 | 29.30 | 18.09 |
| | ASSIGNED BY TEACHER | 77 | 14.26 | 56 | 8 38 | 118 | 17.20 | 11.60 |
| | ASSIGNED BY GUIDANCE COUNSELOR | 105 | 19 44 | 61 | 9.13 | 168 | 24.49 | 14.75 |
| | OTHER | 31 | 5 74 | 17 | 2.54 | 45 | 6.56 | 4.06 |
| | STUDENTS ARE NOT SCHEDULED | 22 | 4.07 | 13 | 1.95 | 25 | 3.64 | 2.65 |
| | DON'T KNOW | 0 | 0 0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | NO RESPONSE | 399 | 73.89 | 571 | 85.48 | 454 | 66.18 | 78.45 |
| 27 | MHO IS AVAILABLE TO ASSIST STUDENTS IN USING THE | COMPUTER | | | | | | £ |
| | GUIDANCE COUNSELOR | 112 | 20.74 | 76 | 11.38 | 181 | 26.38 | 16.80 |
| | SECRETARY | 35 | 6.48 | 30 | 4.49 | 77 | 11.22 | 6.73 |
| | OTHER | 80 | 14 81 | 54 | 8.08 | 150 | 21.87 | 12.90 |
| | STUDENTS CAN USE IT WITHOUT HELP | 26 | 4.81 | 33 | 4.94 | 48 | 7.00 | 5.56 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | NO PESPONSE | 400 | 74.07 | 572 | 85.63 | 455 | 66.33 | 78.60 |
| 28 | DOES SCHOOL HAVE OCC INFO IN A-V, MICROFICHE, NON- | COMP. SORTING MATE | RIAL' | | | | | |
| | YES | 361 | 66 85 | 465 | 69 61 | 501 | 73 03 | 70.35 |
| | NO | 153 | 28.33 | 175 | 26 20 | 165 | 24.05 | 25.70 |
| | NOT APPLICABLE | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| | DON'T KNOW | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 26 | 4 81 | 28 | 4.19 | 20 | 2.92 | 3.85 |
| 2 9 A | HOM OFTEN A-V OCC INFO REVIEWED TO REMOVE OBSOLE | TE MATERIAL? | | | | | | |
| | HEVER | 24 | 4 44 | 23 | 3.44 | 27 | 3.94 | 3.68 |
| | LESS THAN ONCE A YEAR | 88 | 16 30 | 118 | 17 66 | 134 | 19.53 | 18.10 |
| | DNCE A YEAR | 187 | 34 63 | 236 | 35.33 | 256 | 37.32 | 35.84 |
| | MORE THAN ONCE A YEAR | 41 | 7 59 | 29 | 4.34 | 38 | 5.54 | 4.99 |
| | MATERIAL NOT AVAILABLE | 12 | 2.22 | 34 | 5 09 | 20 | 2.92 | 4.16 |
| | DON'T KNOW | 25 | 4.63 | 26 | 3.89 | 28 | 4.08 | 4.01 |
| | NO RESFONSE | 163 | 30.19 | 202 | 30 24 | 183 | 26.68 | 29 11 |
| 2 9B | HOW OFTEN MICRO-FICHE DCC INFO REVIEWED TO REMOV | E OBSOLETE MATERI | AL' | | | | | |
| | NEVER | 17 | 3.15 | 20 | 2.99 | 20 | 2.92 | 2.98 |
| | LESS THAN DINCE A YEAR | 44 | 8.15 | 56 | 5.38 | 61 | 8 89 | 8.51 |
| | DNCE A YEAR | 111 | 20 56 | 176 | 26.35 | 203 | 29.59 | 26.81 |
| | MCRE THAN ONCE A YEAR | 2.2 | 4.07 | 26 | 3 89 | 21 | 3.06 | 3.65 |
| | MATERIAL NOT AVAILABLE | 100 | 18 52 | 138 | 20 66 | 125 | 18.22 | 19.70 |
| | DON'T KHOW | 15 | 2.78 | 19 | 2.84 | 20 | 2.92 | 2.86 |
| | NO RESPONSE | 231 | 42 78 | 233 | 34.88 | 236 | 34.40 | 35.39 |





| HUHBE | ER OF OBSERVATIONS | | RATUM1 540 | | RATUM2 668 | | RATUM3 686 | HATL EST |
|-------|--|-------------------|---------------|------|---------------|------|---------------|-----------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 296 | HON OFTEN NON-COMP SORT, MATERIAL REVIEWED TO REMO | NUE MASOLETE MATE | DTAL? | | | | | |
| | NEVER | 11 | 2.04 | 11 | 1.65 | 19 | 2.77 | 2.02 |
| | LESS THAN ONCE A YEAR | 33 | 6 11 | 41 | 6.14 | 46 | 6.71 | 6.30 |
| | ONCE A YEAR | 83 | 15 37 | 148 | 22.16 | 161 | 23.47 | 21.94 |
| | MORE THAN ONCE A YEAR | 12 | 2 22 | 21 | 3.14 | 24 | 3.50 | 3.17 |
| | MATERIAL NOT AVIALABLE | 131 | 24 26 | 165 | 24.70 | 161 | 23.47 | 24.26 |
| | DON'T KHOM | 18 | 3 33 | 19 | 2.84 | 18 | 2.62 | 2.82 |
| | NO RESPONSE | 252 | 46.67 | 263 | 39.37 | 257 | 37.46 | 39.39 |
| 30A | HOW MANY OCCUPATIONS ARE COVERED BY A-V MATERIALS | 3? | | | | | | |
| | 20 OR FEWER | 78 | 14.44 | 129 | 19.31 | 106 | 15.45 | 17.68 |
| | 21 - 100 | 150 | 27.78 | 165 | 24.70 | 184 | 26.82 | 25.60 |
| | 101 - 200 | 61 | 11.30 | 61 | 9.13 | 55 | 12.83 | 10.45 |
| | 201+ | 66 | 12 22 | 62 | 9.28 | 95 | 13.85 | 10.93 |
| | MATERIAL HOT AVAILABLE | 14 | 2.59 | 41 | 6.14 | 22 | 3.21 | 4.92 |
| | DCH'T KNOW | 1 | 0.19 | 2 | 0.30 | 1 | 0.15 | 0.24 |
| | NO RESPONSE | 170 | 31 . 48 | 509 | 31.14 | 190 | 27.70 | 30.08 |
| 308 | HOW MANY OCCUPATIONS ARE COVERED BY MICROFICHE MA | TERIALS' | | | | | | |
| | 20 OR FEWER | 22 | 4.07 | 29 | 4.34 | 24 | 3.50 | 4.05 |
| | 21 - 100 | 47 | 8.70 | 43 | 6.44 | 52 | 7.58 | 6.98 |
| | 101 - 200 | 29 | 5 37 | 59 | 8.83 | 63 | 9.18 | 8.63 |
| | 201+ | 113 | 20.93 | 153 | 22.90 | 175 | 25.51 | 23.51 |
| | MATERIAL NOT AVAILABLE | 105 | 19.44 | 149 | 22 31 | 137 | 19.97 | 21.31 |
| | DON'T KHOW | 3 | 0.56 | 1 | 0 15 | 1 | 0.15 | 0.18 |
| | NO RESPONSE | 551 | 40.93 | 234 | 35.03 | 234 | 34.11 | 35.23 |
| 30C | HOW MANY OCCUPATIONS ARE COVERED BY NON-COMP SORT | TING MATERIALS? | | | | | | |
| | 20 OR FEWER | 15 | 5 55 | 85 | 4.19 | 16 | 2.33 | 3.44 |
| | 21 - 100 | 26 | 4.81 | 33 | 4.94 | 30 | 4.37 | 4.75 |
| | 101 - 200 | 37 | 6 85 | 45 | 6.74 | 54 | 7.87 | 7.09 |
| | 201+ | 65 | 12 04 | 117 | 17 51 | 148 | 21.57 | 18.26 |
| | MATERIAL NOT AVAILABLE | 130 | 24 07 | 178 | 26 65 | 175 | 25.51 | 26.04 |
| | DON'T KHOM | 1 | 0 19 | 1 | 0 15 | 1 | 0.15 | 0.15 |
| | NO RESPONSE | 269 | 49.81 | 266 | 39 82 | 262 | 38 19 | 40.16 |
| | | | | | | | ((| CONTINUED |



| HUME | ER OF DESERVATIONS | | RATUMI 540 | - | RATUM2 668 | _ | RATUMS 686 | MATL EST |
|------|--|---------------------|---------------|------|---------------|------|---------------|----------|
| | ITEMS AND | | | | | | | |
| | ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 31 | HOW ARE STUDENTS SCHEDULED TO USE THE A-V.HICROF | ICHE , NON-COMPUTER | RESOURCES | | | | | |
| | STUDENT INITATED REQUEST | 306 | 56.67 | 389 | 58.23 | 447 | 65.16 | 60.16 |
| | ASSIGNED BY TEACHER | 257 | 47.59 | 305 | 45.66 | 358 | 52.19 | 47.79 |
| | ASSIGNED BY GUIDANCE COUNSELOR | 243 | 45.00 | 316 | 47.31 | 350 | 52.19 | 48.55 |
| | OTHER | 83 | 15.37 | 71 | 10.63 | 105 | 15.31 | 12.47 |
| | STUDENTS NOT SCHEDULED | 48 | 8.89 | 57 | 8.53 | 50 | 7.29 | 8.17 |
| | DON'T KHOM | 0 | 0 0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | NO RESPONSE | 151 | 27.96 | 168 | 25.15 | 163 | 23.76 | 24.95 |
| 32 | HUMBER FILMSTRIP VIEWERS/CASSETTE PLAYERS FOR ST | LODENT TO SET OCC | INFO | | | | | |
| | 11+ | 77 | 14.26 | 56 | 8.38 | 78 | 11.37 | 9.81 |
| | * - 10 | 37 | 6 85 | 36 | 5.39 | 32 | 4.66 | 5.29 |
| | 7 - 8 | 21 | 3.89 | 17 | 2.54 | 22 | 3.21 | 2.86 |
| | 5 - 6 | 61 | 21.30 | 76 | 11.38 | 93 | 13.56 | 12.03 |
| | 3 - 4 | 74 | 13.70 | 105 | 15.72 | 116 | 16.91 | 15.89 |
| | 1 - 2 | 62 | 11.48 | 127 | 19.01 | 119 | 17.35 | 17.82 |
| | 0 | 44 | 8.15 | 72 | 10.78 | 44 | 6.41 | 9.20 |
| | NOT APPLICABLE | 1 | 0.19 | ē | 0.0 | 0 | 0.0 | 0.02 |
| | DON'T KNOW | 3 | 0.56 | 3 | 0.45 | ž | 0.29 | 0.41 |
| | HO RESPONSE | 160 | 29.63 | 176 | 26.35 | 180 | 26.24 | 26.58 |
| 334 | AV HRS/DAY FILMSTRIP VIEWER/CASSETTE PLAYER AVAI | LABLE TO SET OCC | INFO | | | | | |
| | 10.01+ | 1 | 0.19 | ž | 0.30 | 4 | 0.58 | 0.38 |
| | 8.01 - 10.00 | i | 1.11 | 3 | 0.45 | 13 | 1.90 | 0.95 |
| | 6.01 - 8 00 | 157 | 28 15 | 198 | 29.64 | 258 | 37.61 | 31.93 |
| | 4.01 - 6.00 | 148 | 27.41 | 166 | 24.85 | 156 | 22.74 | 24.40 |
| | 2.01 - 4 00 | 19 | 3.52 | 26 | 3 89 | 18 | 2.62 | 3.47 |
| | 01 - 2 00 | 10 | 1.8. | 21 | 3.14 | 14 | 2.04 | 2.69 |
| | 0,00 | 7 | 1.30 | 12 | 1.80 | 7 | 1 02 | 1.51 |
| | NOT APPLICABLE | ì | 0.19 | 1 | 0.15 | 1 | 0.15 | 0.15 |
| | DON'T KNOW | 3 | 0 56 | 4 | 0.60 | 5 | 0 73 | 0.63 |
| | NO RESPONSE | 193 | 35.74 | 235 | 35.18 | 210 | 30.61 | 33.79 |
| | - | • • • | | | | -40 | | |



| NUMBER OF OBSERVATIONS | 31 | TRATUM1 540 | | RATUMZ 668 | | RATUM3 >86 | NATE EST |
|---|---------------|----------------|------|---------------|------|---------------|-----------|
| ITEMS AND | | | | | | | |
| ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 338 AV HRS/DAY FILMSTRIP VIEWER/CASSETTE PLAYER USED TO | GET OCC INFO | | | | | | |
| 10.01+ | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 8.01 - 10.00 | 0 | 0.0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| 6.01 - 8.00 | 9 | 1.67 | 5 | 0.75 | 11 | 1.60 | 1.09 |
| 4.01 - 4.00 | 32 | 5.93 | 12 | 1 80 | 18 | 2.62 | 2.41 |
| 2.01 - 4.00 | 42 | 7 78 | 38 | 5.69 | 55 | 8.02 | 6.58 |
| .01 - 2.00 | 173 | 32 04 | 267 | 39.97 | 301 | 43.88 | 40.43 |
| 0.00 | 36 | 6.67 | 58 | 8.68 | 92 | 6.12 | 7,71 |
| NOT APPLICABLE | 4 | 0.74 | 2 | 0.30 | 2 | 0.29 | 0.34 |
| DOM: T KNOW | 28 | 5.19 | 31 | 4.64 | 28 | 4.08 | 4.51 |
| NO RESPONSE | 216 | 40.00 | 255 | 38.17 | 559 | 33.24 | 36.78 |
| 34 NUMBER MICROFICHE VIEWERS/READER-PRINTERS FOR STUDE | NT TO SET OCC | INFO | | | | | |
| 11+ | 2 | 0.37 | 2 | 0.30 | t | 0.29 | 0.30 |
| 9 - 10 | | 0 0 | 1 | 0.15 | 5 | 0.73 | 0.31 |
| 7 - 8 | ě. | 0.74 | ā | 0.0 | | 0.87 | 0.33 |
| 5 - 6 | 13 | 2.41 | 6 | 0.90 | 12 | 1.75 | 1.29 |
| 3 - 4 | 39 | 7.22 | 26 | 3.89 | 68 | 9.91 | 6.03 |
| 1 - 2 | 179 | 33.15 | 261 | 39.07 | 245 | 35.71 | 37.48 |
| 0 | 143 | 26.48 | 194 | 29.04 | 167 | 24.34 | 27.35 |
| NOT APPLICABLE | 3 | 0 37 | 1 | 0.15 | 2 | 0.29 | 0.21 |
| DON'T KNOW | Ò | 0 0 | ż | 0.30 | ż | 0.29 | 0.27 |
| NO RESPONSE | 158 | 29.26 | 175 | 26.20 | 177 | 25.80 | 26.32 |
| 35A AV HRS/DAY MICROFICHE VIEWER/READER-PRINTER AVAILAB | LE TO GET OCC | INFO | | | | | |
| 10.01+ | 0 | 0.0 | 6 | 0.0 | 3 | 0.44 | 0.13 |
| 8.01 - 10.00 | 5 | 0.93 | 4 | 0.60 | 1.2 | 1.75 | 0.98 |
| 6.01 - 8.00 | 127 | 23.52 | 160 | 23.95 | 194 | 28.28 | 25.22 |
| 4.01 - 6.00 | 87 | 16.11 | 108 | 16.17 | - 15 | 16.76 | 16.33 |
| 2.01 - 4.00 | 8 | 1.48 | 11 | 1.65 | . 6 | 1.17 | 1.48 |
| .01 - 2.00 | 2 | 0 37 | - 6 | 1.20 | 6 | 0.87 | 1.02 |
| 0.00 | 31 | 5.74 | 25 | 3 74 | 28 | 4.08 | 4.02 |
| NOT APPLICABLE | 9 | 1.67 | 2 | 0.30 | 8 | 1.17 | 0.69 |
| DON'T KNOW | ź | 0 37 | ž | 0.30 | 1 | 0.15 | 0.26 |
| NO RESPONSE | 269 | 49.81 | 48 | 52.10 | 311 | 45.34 | 49.77 |
| | | | | | | 10 | ONTINUED) |



| MARBER OF DESERVATIONS | | RATUM1 540 | | RATUM2 668 | _ | RATUHS 484 | HATL EST |
|---|----------------------|---------------|------|---------------|------|---------------|------------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 358 AV HRS/DAY MICROFICHE VIEWER/READER-PRINTER | MED TO SET OUT THEN | | | | | | |
| 10.01• | 0 000 000 000 | 0.0 | 0 | 0.0 | | 0.0 | 0.0 |
| 8.01 - 10.00 | 0 | 0.0 | ٥ | 0.0 | | 0.0 | 0.0 0.0 |
| 6.01 - 8.00 | ž | 1.30 | 7 | 1.05 | i | 1.31 | 1.15 |
| 4.01 - 4.00 | 20 | 3.70 | 7 | 1.05 | 20 | 2,92 | 1.45 |
| 2.01 - 4.00 | 30 | 5.56 | 32 | 4.79 | 46 | 6.71 | 5.44 |
| .01 - 2.00 | 113 | 20.93 | 195 | 29.19 | 207 | 30.17 | 28.74 |
| 0.00 | 57 | 10.56 | 45 | 6.74 | 61 | 8.89 | 7.73 |
| NOT APPLICABLE | , i | 1 67 | 2 | 0.30 | 7 | 1.02 | 0.64 |
| DON'T KHOW | 20 | 3.70 | 17 | 2.54 | 15 | | 2.53 |
| NO RESPONSE | 284 | 52.59 | 363 | 54.34 | 321 | 2.19 46.79 | 51.82 |
| 36 TO MHAT YEAR DOES HOST OF THE MAGE/SALARY IN | O ON MICROFICHE APPL | .Υ | | | | | |
| 1978 - 79 | 144 | 26.67 | 178 | 26.65 | 178 | 25.95 | 26.41 |
| 1976 - 77 | 44 | 8.15 | 58 | 8.68 | 26 | 11.95 | 9.63 |
| 1974 - 75 | 16 | 2.96 | 14 | 2.10 | 28 | 4.08 | 2.78 |
| 1973 OR EARLIER | 5 | 0.93 | 10 | 1.50 | 6 | 0.87 | 1.25 |
| NOT APPLICABLE | 8 | 1.48 | 3 | 0.45 | 14 | 2.04 | 1.03 |
| DOH'T KHOM | 38 | 7.04 | 50 | 7.49 | 49 | 7.14 | 7.33 |
| NO RESPONSE | 285 | 52.78 | 355 | 53.14 | 329 | 47.96 | 51.47 |
| 37 NUMBER SETS NEEDLESORT/KEYSORT MATERIALS FOR | STUDENT TO GET OCC I | NF O | | | | | |
| 11+ | 1 | 0 19 | 1 | 0 15 | 4 | 0.58 | 0.29 |
| 9 - 10 | 2 | 0.37 | 1 | 0.15 | 0 | 0.0 | 0.12 |
| 7 - 8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| 5 - 6 | 6 | 1 11 | 6 | 0.90 | 4 | 0.58 | 0.62 |
| 3 - 4 | 2 | 0.37 | 8 | 1.20 | 23 | 3.35 | 1.79 |
| 1 - 2 | 58 | 10.74 | 122 | 18.26 | 106 | 15.45 | 16.72 |
| 0 | 299 | 55.37 | 341 | 51.05 | 367 | 53.50 | 52.13 |
| NOT APPLICABLE . | 1 | 0 19 | 0 | 0.0 | 1 | 0.15 | 0.06 |
| DON'T KHOH | 1 | 0 19 | 4 | 0.60 | ī | 0.15 | 0.42 |
| NO RESPONSE | 170 | 31.48 | 185 | 27.69 | 180 | 26.24 | 27.55 |
| | | | | | | 10 | ONTTNEED) |



| NUMBER OF OBSERVATIONS | 31 | RATUM1 540 | | RATUM2 668 | | RATUM3 686 | MATL EST |
|--|-------------------|---------------|------|---------------|------|---------------|------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 36A AV HRS/DAY NEEDLESORT/KEYSORT AVAILABLE STUDENT | USE TO GET OCC IN | IFO | | | | | |
| 10.01+ | 0 | 0 0 | 1 | 0.15 | 1 | 0.15 | 0.14 |
| 8.01 - 10.00 | 0 | 0.0 | 1 | 0.15 | 3 | 0.44 | 0.22 |
| 6.01 - 8.00 | 31 | 5 74 | 74 | 11.08 | 78 | 11.37 | 10.69 |
| 4.01 - 6.00 | 33 | 6 11 | 45 | 6.74 | 44 | 6.41 | 6.58 |
| 2.01 - 4.00 | 3 | 0 56 | 9 | 1.35 | 4 | 0.58 | 1.04 |
| .01 - 2.00 | 0 | 0.0 | 4 | 0 60 | 5 | 0.73 | 0.59 |
| 0.00 | 50 | 9 26 | 50 | 7.49 | 41 | 5.98 | 7.17 |
| MOY APPLICABLE | 6 | 1.11 | 3 | 0.45 | 8 | 1.17 | 0.73 |
| DON'T KNOW | 2 | 0 37 | 4 | 0.60 | 2 | 0.29 | 0.48 |
| NO RESPONSE | 415 | 76 . 85 | 477 | 71.41 | 500 | 72.89 | 72.27 |
| 388 AV HRS/DAY NEEDLESORT/KEYSORT USED BY STUDENT TO | GET OCC INFO | | | | | | |
| 10.01+ | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| 8.01 - 10.00 | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| 6.01 - 8.00 | 1 | 0 19 | 0 | 0 0 | 2 | 0.29 | 0.11 |
| 4.01 - 6.00 | 4 | 0 74 | 4 | 0.60 | 5 | 0.73 | 0.65 |
| 2.01 - 4.00 | 5 | 1 11 | 11 | 1.65 | 15 | 2.19 | 1.76 |
| .01 - 2.00 | 43 | 7.96 | 94 | 14 07 | 83 | 12.10 | 12.91 |
| 0.00 | 55 | 10 19 | 64 | 9.58 | 64 | 9 33 | 9.55 |
| NOT APPLICABLE | 6 | 1 11 | 3 | 0.45 | 7 | 1.02 | 0.68 |
| DOM'T KNOW | 6 | 1.11 | 10 | 1.50 | 4 | 0.58 | 1.18 |
| NO RESPONSE | 419 | 77. 59 | 482 | 72.16 | 506 | 73.76 | 73.05 |
| 39 DOES YOUR SCHOOL OFFER SCHOOL ARRANGED EXPERIENCE | ES.SIMULATIONS.E | rc. ? | | | | | |
| YES | 488 | 90 37 | 580 | 86 83 | 621 | 90 52 | 88.19 |
| NÖ | 16 | 2 ^6 | 42 | 6.29 | 20 | 2.92 | 4 95 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 | 0.0 |
| DON'T KNOW | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | 0.0 |
| NO RESPONSE | 36 | 6.67 | 46 | 6.89 | 45 | 6 56 | 6.76 |
| 40A DOES SCHOOL OFFER COURSES IN CAREER PLANNING ? | | | | | | | |
| REQUIRED OF ALL STUDENTS | 70 | 12 96 | 63 | 9 43 | 92 | 13.41 | 10.95 |
| AVAILABLE TO ALL STUDENTS | 138 | 25.56 | 138 | 20.66 | 155 | 22.59 | 21.66 |
| AVAILABLE ONLY TO STUDENTS IN CERTAIN CURRIC | ULA 78 | 14 44 | 103 | 15 42 | 110 | 16.03 | 15.51 |
| NOT OFFEPED | 500 | 37.04 | 275 | 41.17 | 269 | 39.21 | 40.16 |
| DON'T KHOM | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NO RESPONSE | 54 | 10 00 | 89 | 13.32 | 60 | 8.75 | 11.61 |
| | | | | | | 1 (| CONTINUED) |



| HUMBE | R OF DESERVATIONS | 51 | RATUM1 540 | 31 | RATUM2 668 | _ | RATUM3 686 | NATL EST |
|-------|--|-----------|---------------|----------------|---------------|------|---------------|----------|
| | ITEMS AND ALTERNATIVES | 1010 | PERCENT | EDEA | PERCENT | FREO | PERCENT | BERGELIN |
| | | , we've | FERCENT | 7864 | FERCENI | THEM | PERCENT | PERCENT |
| 408 | DOES SCHOOL OFFER OCC INFO UNITS IN SUBJECT MATTER COURS | ES ? | | | | | | |
| | REQUIRED OF ALL STUDENTS | 62 | 11 48 | 87 | 13.02 | 80 | 11.66 | 12.46 |
| | AVAILABLE TO ALL STUDENTS | 185 | 34.26 | 187 | 27.99 | 193 | 28.13 | 28.56 |
| | AVAILABLE ONLY TO STUDENTS IN CERTAIN CURRICULA | 189 | 35 00 | 229 | 34.28 | 311 | 45.34 | 37.70 |
| | NOT OFFERED | 54 | 10.00 | 81 | 12.13 | 56 | 8.16 | 10.71 |
| | DON'T KNOW | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 50 | 9.26 | 84 | 12.57 | 46 | 6.71 | 10.47 |
| 40C | DOES SCHOOL OFFER EXPLORATORY WORK-EXPERIENCE PROGRAMS ? | | | | | | | |
| | REQUIRED OF ALL STUDENTS | 15 | 2.78 | 5 | 0.75 | 13 | 1.90 | 1.28 |
| | AVAILABLE TO ALL STUDENTS | 222 | 41.11 | 154 | 23.05 | 304 | 44.31 | 31.15 |
| | AVAILABLE ONLY TO STUDENTS IN CERTAIN CURRICULA | 240 | 44.44 | 263 | 40.12 | 257 | 37.46 | 39.64 |
| | NOT OFFERED | 31 | 5.74 | 151 | 22.60 | 75 | 10.93 | 17.51 |
| | DON'T KNOW | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO PESPONSE | 32 | 5.93 | 90 | 13.47 | 37 | 5.39 | 10.32 |
| 400 | DOES SCHOOL OFFER CAREER DAYS ? | | | | | | | |
| | REQUIRED OF ALL STUDENTS | 67 | 12.41 | 9 7 | 14.52 | 89 | 12.97 | 13.85 |
| | AVAILABLE TO ALL STUDENTS | 265 | 49.07 | 308 | 46.11 | 321 | 46.79 | 46.53 |
| | AVAILABLE ONLY TO STUDENTS IN CERTAIN CURRICULA | 51 | 9 44 | 75 | 11 23 | 56 | 8.16 | 10.12 |
| | NOT OFFERED | 109 | 20 19 | 120 | 17.96 | 170 | 24.78 | 20.23 |
| | DON'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 48 | 8.89 | 68 | 10.18 | 50 | 7.29 | 9.17 |
| 40E | DOES SCHOOL OFFER JOB SITE TOURS OR VISITS ? | | | | | | | |
| | REQUIRED OF ALL STUDENTS | 7 | 1 30 | 10 | 1.50 | 7 | 1.02 | 1.33 |
| | AVAILABLE TO ALL STUDENTS | 200 | 37 04 | 183 | 27 40 | 222 | 32.36 | 29.74 |
| | AVAILABLE ONLY TO STUDENTS IN CERTAIN CURRICULA | 255 | 47.22 | 301 | 45.06 | 323 | 47.08 | 45.83 |
| | NOT OFFERED | 43 | 7.96 | 100 | 14.97 | 95 | 13.85 | 13.99 |
| | DON'T KNOW | ő | 0.0 | 0 | 0.0 | , | 0.0 | 0.0 |
| | NO RESPONSE | 35 | 6 48 | 74 | 11.08 | 39 | 5.69 | 9.01 |
| 40F | DOES SCHOOL OFFER JOB SHADOWING ? | | | | | | | |
| 401 | REQUIRED OF ALL STUDENTS | | | | | | | |
| | AVAILABLE TO ALL STUDENTS | 6 | 1.11 | 4 | 0.60 | | 0.0 | 0.46 |
| | AVAILABLE ONLY TO STUDENTS IN CERTAIN CURRICULA | 77 1*1 | 14 26 | 45 | 6.74 | 126 | 18.37 | 10.96 |
| | NOT OFFERED | 151 | 27.96 | 115 | 17 22 | 131 | 19.10 | 18.72 |
| | DON'T KNOW | 247 | 45.74 | 400 | 59.88 | 375 | 54.66 | 56.97 |
| | NO RESPONSE | 0 | 0.0 | . 0 | 0.0 | -0 | 0.0 | 0.0 |
| | NO RESPUNSE | 59 | 10.93 | 104 | 15.57 | 54 | 7.87 | 12.78 |
| | | | | | | | | |



| NUMBER OF OBSERVATIONS | | | RATUM1 540 | | RATUMZ 668 | STRATUMS 686 | | NATL EST |
|------------------------|--|-------------|---------------|------|---------------|-----------------|---------|-------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 406 | DOES SCHOOL OFFER SIMULATIONS ? | | | _ | - | _ | | 4 55 |
| | REQUIRED OF ALL STUDENTS | 5 | 0.93 | _5 | 0.75 | 4 | 0.58 | 0.71 |
| | AVAILABLE TO ALL STUDENTS | 108 | 20 00 | 76 | 11 36 | 92 | 13.41 | 12.75 |
| | AVAILABLE ONLY TO STUDENTS IN CERTAIN CURRICULA | 82 | 15.19 | 88 | 13.17 | 98 | 14.29 | 13.68 |
| | NOT OFFERED | 27 7 | 51.30 | 394 | 58.98 | 429 | 62.54 | 59,34 |
| | DOM'T KHOM | 0 | 0 0 | 0 | 0.0 | 1 | 0.15 | 0.04 |
| | NO RESPONSE | 66 | 12.59 | 105 | 15.72 | 62 | 9.04 | 13.38 |
| 414 | AT WHAT GRADE ARE SCHOOL COURSES IN CARER PLANNING OFFER | ED ? | | | | | | |
| | GRADE 10 | 218 | 40 37 | 194 | 29.04 | 246 | 35.86 | 32.10 |
| | GRADE 11 | 174 | 32 22 | 164 | 24.55 | 207 | 30.17 | 26.93 |
| | GRADE 12 | 166 | 30 74 | 181 | 27.10 | 202 | 29.45 | 28.11 |
| | NOT OFFERED | 221 | 40 93 | 306 | 45.81 | 300 | 43.73 | 44.70 |
| | DON'T KNOW | 1 | 0.19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | NO RESPONSE | 59 | 10 93 | 83 | 12.43 | 62 | 9.04 | 11.24 |
| 418 | AT WHAT GPADE ARE OCC INFO UNITS IN SUBJECT MATTER COURS | ES OFFERE | D ? | | | | | |
| -10 | GPADE 10 | 354 | 65.56 | 393 | 58.83 | 479 | 69.83 | 62.74 |
| | GRADE 11 | 358 | 66 30 | 393 | 58 83 | 453 | 66.03 | 61.64 |
| | GRADE 12 | 330 | 61 11 | 406 | 60.78 | 442 | 64 43 | 61.87 |
| | NOT OFFERED | 69 | 12.78 | 99 | 14 82 | 82 | 11.95 | 13.75 |
| | DON'T KHOH | 1 | 0 19 | 0 | 0.0 | 0 | 0.0 | 0.02 |
| | NO RESPONSE | 47 | 8 70 | 68 | 10 18 | 45 | 6.56 | 8.93 |
| 410 | AT WHAT GPADE ARE EXPLORATORY WORK-EXPERIENCE PROGRAMS O | FFERED ? | | | | | | |
| 710 | GRADE 10 | 149 | 27 59 | 91 | 13 62 | 151 | 22.01 | 17.41 |
| | GRADE 11 | 390 | 72 22 | 266 | 39 82 | 406 | 59.18 | 48.58 |
| | GPADE 12 | 436 | 80.74 | 416 | 62 28 | 549 | 80 03 | 69 29 |
| | NOT OFFERED | 38 | 7 04 | 167 | 25 00 | 83 | 12.10 | 19.43 |
| | DOALL KHOM | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 33 | 6.11 | 70 | 10.48 | 34 | 4 96 | 8.39 |
| | | | | | | | 1 | CONTINUED) |





| NUMBER OF OBSERVATIONS | \$1 | FRATUM1 540 | STRATUM2 668 | | STRATUMS 686 | | NATL EST | |
|---|-----------------------|----------------|-----------------|---------|-----------------|---------|----------|--|
| ITEMS AND | | | | | | | | |
| ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT | |
| 42A NUMBER STUDENTS/YR TAKE PART IN COURSES IN C. | AREER PLANNING ? | | | | | | | |
| 601+ | 50 | 9.26 | 6 | 0.90 | 37 | 5.39 | 3.01 | |
| 401 - 600 | 21 | 3 89 | 5 | 0.75 | 31 | 4.52 | 2.18 | |
| 201 - 400 | 56 | 10.37 | 30 | 4.49 | 48 | 7.00 | 5.77 | |
| 101 - 200 | 48 | 8.89 | 42 | 6.29 | 54 | 7.87 | 7.00 | |
| 51 - 100 | 49 | 9 07 | 64 | 9.58 | 63 | 9.18 | 9.40 | |
| 1 - 50 | 29 | 5 37 | 129 | 19.31 | 78 | 11.37 | 15.63 | |
| 0 | 9 | 1 67 | 13 | 1.95 | 17 | 2.48 | 2.08 | |
| NOT APPLICABLE | 232 | 42.96 | 298 | 44.61 | 301 | 43 88 | 44.20 | |
| DON'T KNOW | 3 | 0.56 | 1 | 0.15 | 2 | 0.29 | 0.23 | |
| NO RESPONSE | 43 | 7.96 | 80 | 11.98 | 55 | 8.02 | 10.40 | |
| 428 NUMBER STUDENTS/YR TAKE PART IN OCC INFO UNI | TS IN SUBJ MATTER COL | IRSES | | | | | | |
| 601+ | 121 | 22 41 | 25 | 3 74 | 110 | 16.03 | 9.16 | |
| 401 - 600 | 65 | 12 04 | 26 | 3.89 | 62 | 9.04 | 6.18 | |
| 201 - 400 | 82 | 15 19 | 71 | 10.63 | 127 | 18.51 | 13.44 | |
| 101 - 200 | 70 | 12 96 | 112 | 16 77 | 94 | 13.70 | 15.47 | |
| 51 - 100 | 36 | 6 67 | 113 | 16.92 | 75 | 10.93 | 19.16 | |
| 1 - 50 | 21 | 3 89 | 136 | 20 36 | 46 | 6.71 | 14.70 | |
| 0 | 6 | 1 11 | 3 | 0.45 | 4 | 0.58 | 0.55 | |
| NOT APPLICABLE | 67 | 12 41 | 99 | 14.82 | 87 | 12.68 | 13.94 | |
| DON'T KNOW | 18 | 3 33 | 12 | 1.80 | 20 | 2.92 | 2.27 | |
| HO RESPONSE | 54 | 10.00 | 71 | 10.63 | 61 | 8.89 | 10.03 | |
| 42C NUMBER STUDENTS/YR TAKE PART IN EXPLORATORY & | OPK-EXPERIENCE PROGR | AMS | | | | | | |
| 601+ | 12 | 2 22 | 3 | 0.45 | 2 | 0.29 | 0.56 | |
| 401 - 600 | 9 | 1 67 | 3 | 0.45 | 4 | 0.58 | 0.60 | |
| 201 - 400 | 80 | 14 81 | á | 1.20 | 51 | 7.43 | 4 31 | |
| 101 - 200 | 142 | 26 30 | 36 | 5.39 | 119 | 17 35 | 10.89 | |
| 51 - 100 | 108 | 20.00 | 76 | 11 38 | 143 | 20.85 | 15.03 | |
| 1 - 50 | 100 | 18 52 | 297 | 44.46 | 233 | 33.97 | 38.91 | |
| 0 | | 0 74 | 12 | 1 80 | 10 | 1.46 | 1.60 | |
| NOT APPLICABLE | 34 | 6.30 | 149 | 22 31 | 67 | 9.77 | 17.02 | |
| DON'T KNOW | 5 | 0 93 | 1 | 0.15 | 3 | 0 44 | 0.31 | |
| NO RESPONSE | | 8 52 | 83 | | _ | | 10.67 | |
| NO RESPUNSE | 46 | 8 52 | 83 | 12.43 | 54 | 7.67 | | |



| NUMBER OF OBSERVATIONS | STRATUM1 540 | | STRATUM2 668 | | STRATUMS 686 | | MATL EST | |
|--|-----------------|---------|-----------------|---------|-----------------|---------|-----------|--|
| ITEMS AND | | | | | | | | |
| ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT | |
| 42D HUMBER STUDENTS/YR TAKE PART IN CAREER DAYS | | | | | | | | |
| 601+ | 167 | 30.93 | 43 | 6.44 | 145 | 21.14 | 13.10 | |
| 401 - 600 | 48 | 8.89 | 5.5 | 3.29 | 58 | 8.45 | 5.37 | |
| 201 - 400 | 55 | 10 19 | 62 | 9.28 | 73 | 10.64 | 9.77 | |
| 101 - 200 | 39 | 7.22 | 85 | 12.72 | 56 | 8.16 | 10.83 | |
| 51 - 100 | 29 | 5.37 | 87 | 13.02 | 49 | 7.14 | 10.53 | |
| 1 - 50 | 21 | 3 89 | 159 | 23 80 | 56 | 8.16 | 17.22 | |
| 0 | 9 | 1 67 | 8 | 1.20 | 16 | 2.33 | 1.59 | |
| HOT APPLICABLE | 107 | 19 81 | 119 | 17 81 | 168 | 24 | 20.02 | |
| DON'T KNOW | 4 | 0 74 | 3 | 0.45 | 4 | 0. ა | 0.52 | |
| NO RESPONSE | 61 | 11 30 | 80 | 11 98 | 61 | 8.89 | 10.96 | |
| 42E NUMBER STUDENTS/YR TAKE PART IN JOB SITE TOURS OR VISITS | | | | | | | | |
| 601+ | 34 | 6.30 | 5 | 0.75 | 15 | 2.19 | 1.68 | |
| 401 - 600 | 39 | 7 22 | 6 | 0 90 | 27 | 3.94 | 2.39 | |
| 201 - 400 | 93 | 17 22 | 24 | 3 59 | 63 | 9.18 | 6.51 | |
| 101 - 200 | 100 | 18 52 | 60 | 8 98 | 92 | 13.41 | 11.17 | |
| 51 - 100 | 69 | 12.78 | 124 | 18.56 | 126 | 18.37 | 17.98 | |
| 1 - 50 | 74 | 13 70 | 237 | 35.48 | 172 | 25.07 | 30.33 | |
| 0 | 6 | 1 11 | 9 | 1.35 | 11 | 1.60 | 1.40 | |
| NOT APPLICABLE | 62 | 11.48 | 110 | 16 47 | 107 | 15.60 | 15.74 | |
| DON'T KNOW | 11 | 2 04 | 11 | 1 65 | 15 | 2.19 | 1.85 | |
| NO RESPONSE | 52 | 9.63 | 82 | 12 28 | 58 | 8.45 | 10.86 | |
| 42F HUMBER STUDENTS/YR TAKE PART IN JOB SHADOWING | | | | | | | | |
| 601+ | 7 | 1 30 | 2 | 0.30 | 0 | 0.0 | 0.29 | |
| 401 - 600 | 3 | 0 56 | 0 | 0 0 | 3 | 0 44 | 0.18 | |
| 201 - 400 | 16 | 2 96 | 4 | 0.60 | 7 | 1.02 | 0.94 | |
| 101 - 200 | 24 | 4 44 | 7 | 1 05 | 11 | 1.60 | 1.52 | |
| 51 - 100 | 29 | 5 37 | 16 | 2 40 | 26 | 3 79 | 3.08 | |
| 1 - 50 | 124 | 22 96 | 114 | 17 07 | 175 | 25.51 | 20.16 | |
| 0 | 35 | 6 48 | 48 | 7.19 | 44 | 6.41 | 6.88 | |
| NOT APPLICABLE | 243 | 45 00 | 377 | 56 44 | 345 | 50.29 | 53.49 | |
| DON'T KNOW | 2 | 0 37 | Ź | 0 30 | 5 | 0.73 | 0.44 | |
| NO RESPONSE | 57 | 10.56 | 98 | 14 67 | 70 | 10.20 | 12.92 | |
| | | | | | | 10 | ONTINUED) | |

(CONTINUED)

ERIC

| HAMBE | R CF OBSERVATIONS | • | TRATUMI 540 | | SMUTAR 668 | | RATUM3 686 | MATL EST |
|-------|---|------------------|----------------|------|---------------|------|---------------|-----------|
| | ITEMS AND | | | | | | | |
| | ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 426 | NUMBER STUDENTS/YR TAKE PART IN SIMULATIONS | | | | | | | |
| | \$01 • | 21 | 3.89 | 3 | 0.45 | | 1.17 | 0.97 |
| | 401 - 600 | • | 1.67 | 2 | 0.30 | 4 | 0.58 | 0.51 |
| | \$6, - 408 | 19 | 3.52 | 12 | 1.80 | 10 | 1.46 | 1.84 |
| | \$ a 178 | 26 | 4.81 | 16 | 2.40 | 19 | 2.77 | 2.72 |
| | 51 | 37 | 6.85 | 33 | 4.94 | 4 | 3.79 | 4.75 |
| | 1 - 34 | 51 | 9.44 | 75 | 11.23 | 88 | 12.83 | 11.55 |
| | 0 | 32 | 5.93 | 37 | 5.54 | 49 | 7.14 | 4.04 |
| | HOT APPLICABLE | 273 | 50.56 | 379 | 56.74 | 390 | 54.85 | 56.17 |
| | DON'T KNOW | 4 | 0.74 | 6 | 0.90 | 8 | 1.17 | 0.97 |
| | NO RESPONSE | 68 | 12.59 | 105 | 15.72 | 84 | 12.24 | 14. • |
| 43A | HON OFTEN DO STUDENTS PARTICIPATE IN CAREER DAYS | • | | | | | | |
| | MOST DO NOT PARTICIPATÉ | 44 | 8.15 | 53 | 7. 93 | 86 | 12.54 | 9.36 |
| | MOST PARTICIPATE ONCE | 197 | 36 48 | 285 | 42.66 | 222 | 32.36 | 38.91 |
| | HOST PARTICIPATE 2-3 TIMES | 115 | 21.30 | 126 | 18.86 | 141 | 20.55 | 19.58 |
| | MOST PARTICIPATE 4-MORE TIMES | 33 | 6.11 | 15 | 2.25 | 18 | 2.62 | 2.70 |
| | NOT OFFERED | 108 | ~0 00 | 123 | 18.26 | 167 | 24.34 | 29.26 |
| | DON'T KNOW | 15 | 2.22 | 10 | 1.50 | 16 | 2.33 | 1.82 |
| | NO RESPONSE | 31 | 5.74 | 57 | 8.53 | 36 | 5.25 | 7.27 |
| 438 | HOM OFTEN DO STUDENTS PARTICIPATE IN JOB SITE TOU | RS OR VISITS ? | | | | | | |
| | MOST DO NOT PARTICIPATE | 134 | 24 81 | 129 | 19.31 | 184 | 26.82 | 22,08 |
| | MOST PARTICIPATE ONCE | 181 | 33.52 | 198 | 29.64 | 204 | 29.74 | 29.98 |
| | MOST PARTICIPATE 2-3 TIMES | 82 | 15 19 | 116 | 17.37 | 91 | 13.27 | 15.90 |
| | MOST PARTICIPATE 4-MORE TIMES | 27 | 5 00 | 21 | 3.14 | 21 | 3.06 | 3.28 |
| | NOT OFFERED | 48 | 8 89 | 104 | 15.57 | 106 | 15.45 | 14.93 |
| | DON'T KNOH | 36 | 6 67 | 34 | 5.09 | 43 | 6.27 | 5.59 |
| | NO RESPONSE | 32 | 5.93 | 66 | 9.88 | 37 | 5.39 | 8.14 |
| 43C | HOW OFTEN DO STUDENTS PARTICIPATE IN CONFERENCES | HITH COMMUNITY R | EPS ' | | | | | |
| | MOST DO MOT PARTICIPATE | 100 | 18.52 | 132 | 19.76 | 189 | 27.55 | 22.02 |
| | MOST PARTICIPATE ONCE | 156 | 28.89 | 159 | 23.80 | 164 | 23.91 | 24.26 |
| | MOST PARTICIPATE 2-3 TIMES | 104 | 19.26 | 77 | 11.53 | 90 | 13.12 | 12.68 |
| | MOST PARTILIPATE 4-MORE TIMES | 36 | 6.67 | 31 | 4.64 | 24 | 3.50 | 4.46 |
| | NOT OFFERED | 51 | 9 44 | 135 | 20.21 | 1.13 | 17.93 | 18.54 |
| | DON'T KNOW | 61 | 11.30 | 59 | 10.33 | 61 | 8.71 | 9.92 |
| | NO RESPONSE | 32 | 5.93 | 65 | 9.73 | 30 | 5.25 | 8.01 |
| | | | | | | | (C | ONTINUED) |



-408-

ALL SCHOOLS

| NUMBER OF OBSERVATIONS | \$1 | TRATUM1 540 | | RATUMZ 668 | | RATUMS 686 | NATL EST |
|---|----------------|----------------|------|---------------|------|---------------|------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 430 HOM OFTEN DO STUDENTS PARTICIPATE IN SIMULATIONS ? | | | | | | | |
| MOST DO NOT PARTICIPATE | 107 | 19.81 | 110 | 16.47 | 152 | 22.16 | 18.49 |
| MOST PARTICIPATE ONCE | 55 | 10 19 | 65 | 9.73 | 48 | 7.00 | 8.92 |
| MOST PARTICIPATE 2-3 TIMES | 26 | 4.81 | 26 | 3.89 | 20 | 2.92 | 3.67 |
| MOST PARTICIPATE 4-MORE TIMES | 13 | 2.41 | 13 | 1.95 | 8 | 1.17 | 1.75 |
| NOT OFFERED | 237 | 43.89 | 345 | 51.65 | 364 | 53.06 | 51.35 |
| DON'T KNOW | 45 | 8 33 | 24 | 3.59 | 39 | 5.69 | 4.65 |
| NO RESPONSE | 57 | 10 56 | 85 | 12.72 | 55 | 8.02 | 11.08 |
| 444 HOW MUCH TIME DOES STUDENT SPEND IN COURSES IN CAR | EER PLANNING ? | | | | | | |
| ONE DAY - DIE WEEK | 55 | 10.19 | 48 | 7.19 | 58 | 8.45 | 7.83 |
| GREATER THAN ONE WEEK BUT LESS THAN ONE SEMEST | ER 94 | 17 41 | 117 | 17.51 | 133 | 19.39 | 18.06 |
| DNE SEMESTER | 73 | 13 52 | 89 | 13.32 | 94 | 13.70 | 13.44 |
| MORE THAN ONE SEMESTER | 45 | 8.33 | 36 | 5 39 | 47 | 6.85 | 6.09 |
| NOT OFFEPED | 205 | 37. 96 | 300 | 44.91 | 294 | 42.86 | 43.62 |
| DON'T KNOM | 28 | 5 19 | 13 | 1.95 | 19 | 2.77 | 2.48 |
| NO RESPONSE | 40 | 7.41 | 65 | 9 73 | 41 | 5.98 | 8.36 |
| 445 HOW MUCH TIME DOES STUDENT SPEND IN OCC INFO IN SU | BJECT MATTER C | DURSES | | | | | |
| ONE DAY - ONE WEEK | 112 | | 122 | 18.26 | 184 | 26.82 | 21.09 |
| GREATER THAN ONE WEEK BUT LESS THAN ONE SEMEST | ER 200 | 37.04 | 283 | 42 37 | 257 | 37.46 | 40.35 |
| OHE SEMESTER | 37 | 6 85 | 47 | 7 04 | 33 | 4.81 | 6.33 |
| MORE THAN ONE SEMESTER | 53 | 9 81 | 34 | 5 09 | 46 | 6.71 | 6.00 |
| NOT OFFERED | 55 | 10 19 | 80 | 11 98 | 69 | 10.06 | 11.22 |
| DON'T KNOW | 47 | 8.70 | 39 | 5 84 | 60 | 8.75 | 6.98 |
| NO RESPONSE | 36 | 6.67 | 63 | 9.43 | 37 | 5.39 | 7.94 |
| 44C HOW MUCH TIME DOES STITTENT SPEND IN EXPLORATORY WO | RK EXPERIENCE | ? | | | | | |
| ONE DAY - ONE MEE | 12 | | 2.2 | | 30 | 4.37 | 3,53 |
| PEATER THAN ONE HEEK BUT LESS THAN ONE SEMEST | ER 32 | 5 93 | 28 | | 32 | 4.66 | 4.49 |
| ONE SEMESTER | 50 | 9.26 | 49 | 7.34 | 63 | 9.18 | 8.06 |
| MOPE THAN ONE SEMESTER | 348 | 64 44 | 316 | 47 31 | 422 | 61.52 | 53.13 |
| NOT OFFERED | 37 | 6 85 | 166 | 24.85 | 84 | 12.24 | 19.37 |
| DON'T KHOM | 23 | 4 26 | 20 | 2.99 | 20 | 2.92 | 3.08 |
| NO RESPONSE | 38 | | 67 | 10.03 | 35 | 5.10 | 8.24 |
| | | | | | | (| CONTINUED) |

534



ALL SCHOOLS

| URBER OF OSSERVATIONS | \$1 | RATUM1 540 | | RATUM2 668 | 91 | RATUMS 686 | NATL ES |
|--|-------------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND | | | | | | | |
| ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCEN |
| 440 HOW MUCH TIME DOES STUDENT SPEND IN SCHOOL-ARRANGED VO | LUNTEER SER | VICE? | | | | | |
| ONE DAY - ONE WEEK | 68 | 12.59 | 75 | 11.23 | 57 | 8.31 | 10.44 |
| GREATER THAN ONE WEEK BUT LESS THAN ONE SEMESTER | 75 | 13.89 | 55 | 8.23 | 68 | 9.91 | 9.24 |
| ONE SEMESTER | 54 | 10.00 | 29 | 4 34 | 70 | 10.20 | 6.6 |
| MORE THAN ONE SEMESTER | 64 | 11.85 | 41 | 6 14 | 95 | 13.85 | 7.0 |
| NOT OFFERED | 166 | 30.74 | 335 | 50.15 | 288 | 41.98 | 45.8 |
| DON'T KNOW | 72 | 13.33 | 58 | 8.68 | 63 | 9.18 | 9.2 |
| NO RESPONSE | 41 | 7.59 | 75 | 11.23 | 45 | 6.56 | 9,4 |
| 44E HOW MUCH TIME DOES STUDENT SPEND IN JOB SHADOWING ? | | | | | | | |
| ONE DAY - ONE WEEK | 84 | 15.56 | 83 | 12.43 | 133 | 19.39 | 14.8 |
| GREATER THAN ONE WEEK BUT LESS THAN ONE SEMESTER | 49 | 9 07 | 23 | 3.44 | 38 | 5.54 | 4.5 |
| ONE SEMESTER | 20 | 3.70 | 11 | 1 65 | 21 | 3.06 | 2.2 |
| MORE THAN ONE SEMESTER | 24 | 4 44 | 15 | 2.25 | 23 | 3.35 | 2.7 |
| NOT OFFERED | 274 | 50.74 | 428 | 64.07 | 379 | 55.25 | 60.1 |
| DON'T KNOW | 42 | 7.78 | 34 | 5.09 | 45 | 6.56 | 5.7 |
| NO RESPONSE | 47 | 8.70 | 74 | 11 08 | 47 | 6.85 | 9.5 |
| SA HOW MANY OCC ARE COVERED BY COURSES IN CAREER PLANNING | • | | | | | | |
| 1 - 10 | 54 | 10.00 | 59 | 8.83 | 81 | 11.81 | 9.8 |
| 11 - 30 | 54 | 10 00 | 86 | 12.87 | 67 | 9.77 | 11.6 |
| 31 - 50 | 28 | 5 37 | 38 | 5.69 | 33 | 4.81 | 5.3 |
| 50+ | 90 | 16 67 | 85 | 12.72 | 125 | 18.22 | 14.7 |
| NOT OFFERED | 213 | 39 44 | 298 | 44.61 | 296 | 43.15 | 43.6 |
| DON'T KHOH | 48 | 8.89 | 31 | 4.64 | 39 | 5.69 | 5.3 |
| NO RESPONSE | 52 | 9.63 | 71 | 10.63 | 45 | 6.56 | 9.2 |
| 58 HOM MANY OCC ARE COVERED BY OCC INFO UNITS IN SUBJECT ? | MATTER COUR | SES? | | | | | |
| 1 - 10 | 86 | 15 93 | 118 | 17 66 | 125 | 18.22 | 17.6 |
| 11 - 30 | 113 | 20 93 | 146 | 21 86 | 153 | 22 30 | 21.8 |
| 31 - 50 | 49 | 9 07 | 63 | 9.43 | 55 | 8.02 | 8.9 |
| 50+ | 107 | 19 81 | 128 | 19.16 | 156 | 22.74 | 20.3 |
| NOT OFFERED | 53 | 9.81 | 78 | 11.68 | 67 | 9.77 | 10.9 |
| DON'T KHOW | 86 | 15 93 | 68 | 10.18 | 91 | 13.27 | 11.6 |
| HO RESPONSE | 46 | 8.52 | 67 | 10.03 | 39 | 5.69 | 8.5 |
| | | | | | | 10 | ONTINUED |



| NUMBER OF OBSERVATIONS | | RATUMI 540 | STRATUM2 668 | | STRATUM3 686 | | NATL EST |
|--|-----------------|---------------|-----------------|---------|-----------------|---------|------------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREQ | PERCENT | FREG | PERCENT | PERCENT |
| 45C HOW HANY OCC ARE COVERED BY EXPLORATORY WORK-EXPERIE | NCE PROGRAMS? | • | | | | | |
| 1 - 10 | 136 | 25.19 | 201 | 30.09 | 185 | 26.97 | 28.67 |
| 11 - 30 | 124 | 22.96 | 125 | 18.71 | 159 | 23.18 | 20.44 |
| 31 - 50 | 69 | 12.78 | 32 | 4.79 | 77 | 11.22 | 7.46 |
| 50+ | 80 | 14.81 | 32 | 4 79 | 79 | 11.52 | 7.73 |
| NOT OFFERED | 37 | 6.85 | 167 | 25.00 | 89 | 12.97 | 19.69 |
| DON'T KNOW | 51 | 9.44 | 38 | 5 69 | 58 | 8.45 | 6.86 |
| NO RESPONSE | 43 | 7.96 | 73 | 10.93 | 39 | 5.69 | 9.05 |
| 45D HOW MANY DCC ARE COVERED BY JOB SHADOWING? | | | | | | | |
| 1 - 10 | 93 | 17.22 | 79 | 11 83 | 119 | 17.35 | 13.98 |
| 11 - 30 | 48 | 8.89 | 39 | 5.84 | 47 | 6.85 | 6.41 |
| 31 - 50 | 12 | 2 22 | 9 | 1 35 | 15 | 2.19 | 1.68 |
| 50+ | 25 | 4 63 | 10 | 1.50 | 29 | 4.23 | 2.61 |
| NOT OFFERED | 264 | 48.89 | 429 | 64.22 | 389 | 56.71 | 60.50 |
| DON'T KHOW | 45 | 8.33 | 27 | 4.04 | 35 | 5.10 | 4.74 |
| NO RESPONSE | 53 | 9 81 | 75 | 11.23 | 52 | 7 58 | 9.97 |
| 45E HOW MANY DCC ARE COVERED BY SIMULATIONS? | | | | | | | |
| 1 - 10 | 54 | 10 00 | 39 | 5.84 | 50 | 7.29 | 6.64 |
| 11 - 30 | 31 | 5.74 | 32 | 4 79 | 59 | 8.60 | 6.04 |
| 31 - 50 | 20 | 3 70 | 14 | 2.10 | 13 | 1.90 | 2.17 |
| 50+ | 41 | 7.59 | 37 | 5.54 | 25 | 3.64 | 5.13 |
| NOT OFFERED | 283 | 52 41 | 432 | 64 67 | 435 | 63 85 | 63.27 |
| DON'T KNOW | 52 | 9 63 | 31 | 4.64 | 37 | 5 39 | 5.31 |
| NO RESPONSE | 59 | 10 93 | 83 | 12.43 | 64 | 9.33 | 11.33 |
| 46 HOW ARE STUDENTS MADE AWARE OF SCH-ARRANGED EXPER, SI | HULATIONS . ETC | , | | | | | |
| LISTED IN COURSE OFFERINGS | 241 | 44 63 | 234 | 35 03 | 340 | 49.56 | 40.30 |
| PRESENTATIONS TO STUDENT BODY | 346 | 64 07 | 314 | 47.01 | 408 | 59 48 | 52.29 |
| PRESENTATIONS TO PARENTS | 149 | 27.59 | 103 | 15.42 | 198 | 28.86 | 20.60 |
| ADS ON RADIO AND TV | 56 | 10.37 | 51 | 7.63 | 29 | 4.23 | 6.82 |
| TEACHERS RECONTIEND STUDENTS | 855 | 42.22 | 180 | 26.95 | 231 | 33 67 | 30.33 |
| CONFERENCES N/COUNSELORS | 432 | 80.00 | 484 | 72.46 | 561 | 81.78 | 75.91 |
| OTHER | 102 | 18.89 | 78 | 11.68 | 165 | 24.05 | 16.10 |
| NO PAPTICULAR METHOD | 46 | 8.52 | 103 | 15.42 | 50 | 7 29 | 12.30 |
| DON'T KNOW | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NO RESPONSE | 28 | 5.19 | 57 | 8.53 | 28 | 4.08 | 6 . 86 |
| | | | | | | 1 0 | (DEUNITHO: |



| HUMBER OF OBSERV | /ATIONS | \$1 | RATUM1 540 | | RATUM2 668 | | RATUMS 686 | HATL EST |
|------------------|---|-----------------|---------------|------|---------------|------|---------------|----------|
| ITEMS AND |) | | | | | | | |
| ALTERNATIVE | :5 | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 47 TYPE FOLLO | M-UP OF PARTICIPANTS SCH-ARRANGED EXPER, | SIMULATIONS.FYC | | | | | | |
| CONFER | | 329 | 60.93 | 354 | 52.99 | 421 | 61.37 | \$4.21 |
| | DISCUSSION | 231 | 42.78 | 210 | 31.44 | 247 | 36.01 | 33.81 |
| TEST C | R QUESTIONAIRRE | 164 | 30 37 | 135 | 20.21 | 178 | 25.95 | 22.85 |
| STUDEN | IT REPORT-ORAL | 198 | 36.67 | 161 | 24.10 | 208 | 30.32 | 27.09 |
| STUDEN | IT REPORT-WRITTEN | 183 | 33.89 | 165 | 24.70 | 249 | 36.30 | 29.04 |
| OTHER | | 29 | 5 37 | 30 | 4.49 | 45 | 6.56 | 5.20 |
| NO FAR | TICULAR METHOD | 112 | 20 74 | 184 | 27.54 | 160 | 23.32 | 25.62 |
| DON'T | KHOW | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| NO RES | PONSE | 30 | 5.56 | 57 | 8.53 | 29 | 4.23 | 6.94 |
| 48 SOURCES OF | INFO AVAILABLE AT SCHOOL OF LOCAL JOB OF | PODTIMITTES | | | | | | |
| | IGS FROM STATE AND/OR DEPART. OF LABOR | 342 | 63.33 | 301 | 45.06 | 406 | 59.18 | 50.96 |
| | TIONS OF LISTINGS FROM NEWSPAPERS ADS | 130 | 24 07 | 115 | 17.22 | 124 | 18.08 | 18.07 |
| | S JOBS AVAILABLE LOCALLY | 341 | 63.15 | 327 | 48.95 | 428 | 62.39 | 54.28 |
| LISTS | OF CONTACTS AT EMPLOYMENT AGENCIES | 262 | 48.52 | 240 | 35.93 | 297 | 43.29 | 39.26 |
| | OF REPS AT UNIONS |)01 | 18 70 | 32 | 4.79 | 106 | 15.45 | 9.28 |
| INFO F | ROM LOCAL GOV | 344 | 63.70 | 281 | 42.07 | 376 | 54.81 | 47.84 |
| INFO F | ROM FORMER STUDENTS | 162 | 30 00 | 165 | 24 70 | 174 | 25.36 | 25.35 |
| OTHER | | 68 | 12.59 | 56 | 8.38 | 89 | 12.97 | 10.15 |
| NONE | | 35 | 5.93 | 109 | 16.32 | 54 | 7.87 | 12.79 |
| HOT AP | PLICABLE | 0 | 0 0 | Ó | 0.0 | 0 | 0.0 | 0.0 |
| T'MOD | KNOW | 0 | 0 0 | 0 | 0.0 | Ö | 0.0 | 0.0 |
| NO RES | PONSE | 11 | 2.04 | 23 | 3.44 | 5 | 0.73 | 2.48 |
| 49 DCC INFO P | ESOURCES AT SCHOOL DESIGNED FOR THE HANDI | CAPPEN | | | | | | |
| BRAILL | | 38 | 7.04 | 14 | 2 10 | 48 | 7.00 | 4.03 |
| TAPES | | 69 | 12 78 | 61 | 9.13 | 105 | 15.31 | 11.34 |
| SOUND | AMPLIFICATION | 56 | 10.37 | 52 | 7.78 | 67 | 9.77 | 8.61 |
| SIMPLI | FIED READING | 256 | 47 41 | 273 | 40.87 | 319 | 46.50 | 43.13 |
| OTHER | | 60 | 11 11 | 33 | 4 94 | 72 | 10.50 | 7.18 |
| HOHE | | 220 | 40.74 | 342 | 51.20 | 280 | 40.82 | 47.04 |
| DOH1 ' T | KNON | 3 | 0 56 | 2 | 0 30 | 1 | 0.15 | 0.27 |
| NO RES | PONSE | 2.5 | 4 07 | 20 | 2.99 | 31 | 4.52 | 3.55 |
| 50 OCC INFO P | ROVIDED BY SCHOOL IN LANGUAGE OTHER THAN | FNGLISH | | | | | | |
| SPANIS | | 122 | 22.59 | 57 | 8.53 | 111 | 16.18 | 12.11 |
| FRENCH | | 29 | 5.37 | 28 | 4 19 | 28 | 4.08 | 4.26 |
| OTHER | | 21 | 3 89 | 15 | 2 25 | 17 | 2 48 | 2 46 |
| NONE | | 393 | 72 78 | 572 | 85.63 | 551 | 80 32 | 82.78 |
| DON'T | KHOW | 1 | 0.19 | 1 | 0.15 | 331 | 0.0 | 0.11 |
| NO RES | | 21 | 3 89 | 18 | 2.69 | 15 | 2.19 | 2.64 |
| | | | 3 0, | -0 | 4. 7 | 1,5 | £.47 | |

ONTINUED)



| | | | RATUMI | STRATUM2 | | STRATUM3 | | HATL EST |
|------|---|-----------|---------|----------|---------|----------|--------------------|----------|
| HUMB | ER OF OBSERVATIONS | | 540 | | 668 | | 686 | |
| | ITEMS AND | | | | | | | |
| | ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | PERCENT |
| 51 | DOES EXTERNAL RESOURCE CENTER PROVIDE SUBSTANTIAL PROPO | RTION OCC | INFO' | | | | | |
| | YES | 175 | 32.41 | 226 | 33.83 | 178 | 25. 9 5 | 31.25 |
| | NO | 342 | 63 33 | 409 | 61.23 | 485 | 70.70 | 64.26 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | DON'T KNOW | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 53 | 4.26 | 33 | 4.94 | 23 | 3.35 | 4.39 |
| 52 | AUSPICES UNDER WHICH THE CENTER IS MAINTAINED | | | | | | | |
| | STATE EDUC INFO CENTER | 80 | 14.81 | 121 | 18 11 | 74 | 10.79 | 15.56 |
| | STATE EMPLOYMENT SERVICE | 79 | 14 63 | 53 | 12 43 | 56 | 8.16 | 11.30 |
| | OTHER STATE AGENCY | 30 | 5 56 | 39 | 5 84 | 23 | 3.35 | 5.04 |
| | COUNTY | 49 | 9 07 | 40 | 5.99 | 57 | 8.31 | 6.97 |
| | SCHOOL DISTRICT | 131 | 24.26 | 75 | 11.23 | 94 | 13.70 | 13.12 |
| | LOCAL COLLEGE | 47 | 8.70 | 55 | 8.23 | 33 | 4.81 | 7.22 |
| | OTHER | 22 | 4.07 | 35 | 5.24 | 33 | 4.81 | 5.00 |
| | NOT APPLICABLE | 1 | 0 19 | 0 | 0.0 | 3 | 0.44 | 0.15 |
| | DON'T KNOM | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | 0.0 |
| | NO RESPONSE | 339 | 62.78 | 428 | 64.07 | 479 | 69.83 | 65.66 |
| 53 | TYPES OF RESOURCES MADE AVAILABLE BY CENTER FOR USE BY | STUDENTS | | | | | | |
| | PUBLICATIONS | 167 | 30 93 | 193 | 28 89 | 167 | 24.34 | 27.65 |
| | FILMS, OTHER A-V | 169 | 31 30 | 178 | 26.65 | 167 | 24.34 | 26.32 |
| | MICROFICHE | 90 | 16 67 | 117 | 17 51 | 90 | 13 12 | 16.07 |
| | COMPUTER TERMINALS | 60 | 11 11 | 49 | 7 34 | 78 | 11 37 | 8.90 |
| | KEY/NEEDLESORTS | 20 | 3.70 | 53 | 7 93 | 42 | 6.12 | 7.00 |
| | SPEAKEPS, CAREER DAYS | 142 | 26 30 | 137 | 20 51 | 138 | 20.12 | 20.88 |
| | CENTER ARRANGED EXPLORATORY HORK EXPERIENCES | 85 | 15 74 | 75 | 11.23 | 95 | 13 85 | 12.42 |
| | OTHER | 16 | 2 96 | 12 | 1.80 | 14 | 2.04 | 1.97 |
| | NOT APPLICABLE | 2 | 0 37 | Ō | 0 0 | 3 | 0.44 | 0.17 |
| | DON'T KNOW | ō | 0 0 | ō | 0 0 | 0 | 0 0 | 0.0 |
| | NO RESPONSE | 334 | 61.85 | 422 | 63.17 | 471 | 68.66 | 64.68 |
| | | | | | | | | |



APPENDIX E
Responses to Student Questionnaire

| HUMB! | NUMBER OF OBSERVATIONS | | RATUM1 598 | | TRATUM2 | STRATUMS 1729 | | |
|-------|---|------------|---------------|------|---------|------------------|---------|--|
| | ITEMS AND . | | _ | _ | | _ | | |
| | ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | |
| 901 | WHAT GRADE ARE YOU IN NOW? | | | | | | | |
| | 10TM | 475 | 29.72 | 489 | 31.45 | 560 | 32.39 | |
| | 11TH | 549 | 34 . 36 | 533 | 34.28 | 573 | 33.14 | |
| | 12TH | 569 | 35.61 | 525 | 33.76 | 590 | 34.12 | |
| | OTHER | 2 | 0 13 | 3 | 0.19 | 1 | 0.06 | |
| | NOT SURE | 1 | 0 06 | 3 | 0.19 | 2 | 0.12 | |
| | NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | ō | 0.0 | |
| | DON'T KNOW | 2 | 0 13 | Ô | 0.0 | ō | 0.6 | |
| | NO RESPONSE | 0 | 0.0 | 2 | 0.13 | 3 | 0.17 | |
| | TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 | |
| 902 | WHEN DID YOU START TO GO TO SCHOOL? | | | | | | | |
| | THIS SCHOOL YEAR | 256 | 16 02 | 155 | 9.97 | 352 | 20.36 | |
| | LAST YEAR OR BEFORE | 1334 | 83 48 | 1393 | 89 58 | 1371 | 79.29 | |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | |
| | DON'T KNOW | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | |
| | NO RESPONSE | 8 | 0 50 | 7 | 0.45 | 6 | 0.35 | |
| | TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 | |
| 903 | PRESENT HIGH SCHOOL PROGRAM? | | | | | | | |
| | GENEPAL | 660 | 41 30 | 774 | 49 77 | 644 | 37 25 | |
| | ACADEMIC/COLLEGE PREP. | 633 | 39 61 | 517 | 33 25 | 790 | 45.69 | |
| | VOC/TECH | 212 | 13 27 | 189 | 12 15 | 226 | 13.07 | |
| | OTHER | 49 | 3 07 | 39 | 2.51 | 36 | 80.5 | |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | |
| | DON'T KNOW | 7 | 0.44 | 9 | 0 58 | 16 | 0.93 | |
| | NO RESPONSE | 3 7 | 2 32 | 27 | 1 74 | 17 | 0.98 | |
| | TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 | |
| 904 | COMPARE YOUR READING ABILITY TO YOUR CLASSMATES | | | | | | | |
| | TOP FIFTH | 481 | 30.10 | 423 | 27.20 | 502 | 29.03 | |
| | UPPER MIDDLE FIFTH | 495 | 30 98 | 523 | 33.63 | 531 | 30 71 | |
| | MIDDLE FIFTH | 531 | 33.23 | 504 | 32 41 | 573 | 33 14 | |
| | LOHER MIDDLE FIFTH | 70 | 4 38 | 85 | 5 47 | 95 | 5 49 | |
| | BOTTOM FIFTH | 13 | 0 81 | 8 | 0.51 | 13 | 0 75 | |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 | |
| | DON'T KNOW | 1 | 0 06 | 4 | 0.26 | 3 | 0.17 | |
| | NO RESPONSE | 7 | 0 44 | 6 | 0 51 | 12 | 0.69 | |
| | TOTAL | 1598 | 100 00 | 1555 | 100.00 | 1729 | 100.00 | |



| MUMBER OF OBSERVATIONS | | RATUM1 598 | | RATUM2 555 | STRATUM3 1729 | |
|---|-----------|---------------|------|---------------|------------------|--------|
| ITEMS AND Alternatives | FREQ | PERCENT | FREG | PERCENT | FREQ | PERCEN |
| 905 MMAT DO YOU PLAN TO DO MHEN YOU LEAVE HIG | H SCHOOL? | | | | | |
| VOC/TECH/BUSINESS/TRADE SCHOOL | 252 | 15 77 | 294 | 18.91 | 266 | 15.38 |
| ENTER AN APPRENTICESHIP OR OTJ TRAINI | NS 65 | 5 32 | 99 | 6.37 | 128 | 7.40 |
| GO TO 2-YEAR COLLEGE | 229 | 14 33 | 255 | 16 46 | 251 | 14 52 |
| GO TO 4-YEAR COLLEGE | 788 | 49 31 | 544 | 34 93 | 822 | 47.54 |
| GO TO WOOK IMMEDIATELY | 230 | 14 39 | 285 | 18 39 | 279 | 16 19 |
| ENTER THE ARMED FORCES | 137 | 8 57 | 133 | 8 55 | 99 | 5 7 |
| BE A HOMEMAKER FOR OHN FAMILY | 20 | 1 25 | 70 | 4 50 | 42 | 2 43 |
| NOT DECIDED | 158 | 9 69 | 218 | 14 02 | 163 | 10 58 |
| OTHER | 40 | 2 50 | 32 | 2 06 | 55 | 3 16 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| DON'T KHOM | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| NO RESPONSE | 5 | 0 31 | 10 | 0 64 | 12 | 0.6 |
| TOTAL | 1598 | 100 00 | 1555 | 100.00 | 1729 | 100.00 |
| Q06 SE </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| MALE | 696 | 43 55 | 663 | 42 64 | 839 | 48.5 |
| FEMALE | 896 | 56 07 | 888 | 57.11 | 885 | 51 1 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| DON'T KNOW | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| NO RESPONSE | 6 | 0 38 | 4 | 0 26 | 5 | 0.2 |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100.0 |
| 907 MHAT RACE ARE YOU? | | | | | | |
| AMERICAN INDIAN OR A'ASKAN NATIVE | 12 | 0 75 | 26 | 1 67 | 25 | 1 4 |
| ASIAN CR PACIFIC ISLANDER | 25 | 1 56 | 9 | 0 58 | 2.5 | 1 4 |
| BLACK, NOT OF HISPANIC (SPANISH) ORIG | | 40 74 | 235 | 15 11 | 139 | 8 0 |
| HISPANIC (SPANISH) | 147 | 9 20 | 18 | 1.16 | 93 | 5.3 |
| WHITE | 744 | 46 56 | 1248 | 80 26 | 1421 | 82 1 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| DOM: T KNOM | 4 | 0 25 | 3 | 0.19 | 4 | 0.2 |
| NO PESPONSE | 15 | 0 94 | 16 | 1.03 | 22 | 1.2 |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100.0 |
| 906 DO YOU HAVE A PHSICAL HANDICAP? | | | | | | |
| Y E 5 | 81 | 5 07 | 102 | 6.56 | 98 | 5.0 |
| NO | 1493 | 93 43 | 1431 | 92.03 | 1613 | 93 2 |
| NOT AFPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| DCH'T KNOW | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| NO RESPONSE | 24 | 1 50 | 22 | 1 41 | 28 | 1 6 |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100 00 |
| | | | | | | |



| NUMBI | JEBER OF DESERVATIONS | | STRATUM1 1598 | | STRATUM2 1555 | | 12 | STRATUM3 1729 | |
|------------|--|--------------------------|------------------|------|------------------|-----|------|------------------|---------|
| | ITEMS AND | | | | | | | | |
| | ALTERNATIVES | FREQ | PER | CENT | FREQ | PER | ENT | FREQ | PERCENT |
| 909 | MHAT KIND OF HANDICAP DO YOU HAVE? | | | | | | | | |
| | VISUAL | 49 | 60 | 49 | 68 | 66 | 67 | 54 | 61.36 |
| | HEARING | 3 | 3 | 70 | 10 | 9 | 80 | 4 | 4.55 |
| | SPEECH | 8 | 9 | 88 | 7 | 6 | .86 | 3 | 3 41 |
| | ORTHOPEDIC | ż | 2 | 47 | 9 | 8. | . 82 | 2 | 2.27 |
| | OTHER | 18 | 2.5 | \$ 2 | 10 | 9 | 80 | 25 | 28.41 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| | DON'T KHOM | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 0.0 |
| | NO RESPONSE | 5 | 6 | 17 | 3 | 2 | . 94 | 3 | 3 41 |
| | TOTAL | 81 | 5 | 07 | 102 | 6 | 56 | 88 | 5.09 |
| 910 | DOES YOUR SCHOOL HAVE BOOKS LIKE 'THE OCCU | PATTONAL DUTLINGE HANDRO | יאחרי | , | | | | | |
| 444 | YES | 953 | | 64 | 1038 | 56 | 75 | 1094 | 63.27 |
| | NO | 34 | _ | 13 | 29 | | 86 | 26 | 1.50 |
| | NOT SUPE | 592 | _ | 05 | 476 | 30 | | 586 | 33 89 |
| | NOT APPLICABLE | ,,,, | _ | .0 | 0 | | 0 | 0 | 0 0 |
| | DON'T KNOW | 0 | - | .0 | 2 | _ | .13 | 2 | 0 12 |
| | NO RESPONSE | 19 | _ | 19 | 10 | | 64 | 21 | 1 21 |
| | TOTAL | 1598 | 100 | | 1555 | 100 | _ | 1729 | 100.00 |
| | TOTAL | 1370 | 100 | • | 4999 | 100 | •• | 4/27 | 100.00 |
| Q10 | DOES YOUR SCHOOL HAVE MAGAZINES LIKE 'CARE | | | | | | | | |
| | YES | 993 | | 14 | 934 | 60 | | 1066 | 61.65 |
| | но | 57 | | 57 | 77 | | 95 | 56 | 3 24 |
| | NOT SURE | 530 | | 17 | 527 | 33 | - | 576 | 33.31 |
| | NOT APPLICABLE | 0 | - | 0 | 0 | - | 0 | 0 | 0 0 |
| | DOM. I KHOM | 0 | | 0 | 1 | | 05 | 3 | 0 17 |
| | NO RESPONSE | 18 | | 13 | 16 | _ | 03 | 28 | 1.62 |
| | TOTAL | 1598 | 100 | 00 | 1555 | 100 | 00 | 1729 | 100 00 |
| Q10 | DOES YOUR SCHOOL HAVE PAMPHLETS LIKE 'SRA | BPIEFS' ' | | | | | | | |
| | YES | 808 | 50 | 56 | 855 | 54 | | 940 | 54 37 |
| | Ю | 86 | 5 | 38 | 74 | | 76 | 76 | 4.40 |
| | NOT SURE | 679 | _ | 49 | 610 | 39 | | 684 | 39.56 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| | DOM. L. KHOM | 1 | 0 | 06 | 2 | 0 | 13 | 1 | 0.06 |
| | NO RESPONSE | 24 | 1 | 50 | 14 | 0 | 90 | 28 | 1 62 |
| | TOTAL | 1598 | 100 | 0.0 | 1555 | 100 | 00 | 1729 | 100.00 |
| | | | | | | | | | |



| NUMBER (| NUMBER OF OBSERVATIONS | | 5TRATUM1 1598 | | | STRATUM2 1555 | | | RATUM3 729 |
|----------|---|-------------|------------------|------------|------|------------------|-----|------|---------------|
| | TEMS AND | | | | | | | | |
| AL | TEPHATIVES | FREQ | PER | CENT | FREQ | PER | ENT | FREQ | PERCENT |
| Q10 D | DES YOUR SCHOOL HAVE REPORTS ABOUT JOBS BY FORMER STU | JDFNT5? | | | | | | | |
| | YES | 415 | 25 | 97 | 297 | 19 | 10 | 358 | 20 71 |
| | NO | 301 | | 84 | 413 | | 56 | 333 | 19 26 |
| | NOT SURE | 849 | | 13 | 825 | | 05 | 1004 | 58 07 |
| | NOT APPLICABLE | 0 | | 0 | ó | | 0 | 0 | 0.0 |
| | ODN'T KNOW | 1 | - | 06 | ĭ | _ | 06 | 2 | 0.12 |
| | NO RESPONSE | 32 | | 00 | 19 | | 22 | 32 | 1.65 |
| | TOTAL | 1598 | 100 | | 1555 | 100 | | 1729 | 100.00 |
| Q12 H | OH DID YOU LEARN ABOUT PUBLISHED OCCUPATION INFORMAT | [0N? | | | | | | | |
| | GUIDANCE COUNSELOR/GUIDANCE STAFF MEMBER | 627 | 45 | 63 | 695 | 50 | 58 | 693 | 46 57 |
| | CAREER EDUCATION SPECIALIST | 186 | 13 | 54 | 140 | | .19 | 194 | 13 04 |
| | TEACHER IN CLASS | 513 | 37 | 34 | 572 | | 63 | 529 | 35.55 |
| | TEACHER OUTSIDE OF CLASS | 97 | 7 | 06 | 113 | 8 | 22 | 105 | 7 06 |
| | SCHOOL LIEPAPIAN | 379 | 27 | 53 | 458 | | 33 | 353 | 23.72 |
| | POSTEP OR BULLETIN BOARD | 102 | 13 | 97 | 163 | | 86 | 212 | 14.25 |
| | SCHOOL NEWSPAPER | 48 | 3 | 49 | 19 | | 38 | 38 | 2.55 |
| | FPIEND AT SCHOOL | 272 | 19 | 80 | 309 | _ | 49 | 311 | 20 90 |
| | GPOUP VISIT OR ORIENTATION | 164 | | 94 | 111 | | 03 | 190 | 12 77 |
| | OTHER | 117 | 8 | 52 | 105 | _ | 64 | 157 | 10 55 |
| | I DON'T REMEMBER | 70 | 5 | 09 | 68 | | 95 | 80 | 5.38 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | ٥ | 0 | 0 | 0 0 |
| | DOM'T KHOW | 0 | 0 | 0 | ò | _ | 0 | 0 | 0 0 |
| | NO RESPONSE | 27 | 1 | 97 | 16 | | 16 | 35 | 2.35 |
| | TOTAL | 1374 | 85 | 98 | 1374 | 88 | | 1488 | 86.06 |
| Q13 H | ON OFTEN HAVE YOU READ REFERENCE BOOKS THAT DESCRIBE | OCCUPATIONS | , | | | | | | |
| | PBVBH | 290 | 21 | 11 | 300 | 21 | 83 | 347 | 23 32 |
| | ONCE | 302 | 21 | 0 S | 308 | 2.2 | 42 | 358 | 24 06 |
| | A FEH TIMES | 627 | 45 | 63 | 641 | 46 | 65 | 654 | 43 95 |
| | MANY TIMES | 114 | 8 | 30 | 100 | | 25 | 63 | 5 5 9 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | 0. | 0 | 1 | 0.07 |
| | DON'T KNOW | 3 | 0 | 22 | 1 | 0 | 07 | ī | 0 07 |
| | NO RESPONSE | 38 | 2 | 77 | 24 | 1. | 75 | 44 | 2.96 |
| | TOTAL | 137⊶ | 85 | 98 | 1374 | 88 | 36 | 1488 | 86 06 |





| NUMBER OF OBSERVATIONS | | RATUM1 598 | _ | TRATUMZ .555 | STRATUM3 1729 | |
|---|-----------------------|---------------|-------------|-----------------|---|-------------|
| ITEMS AND ALTEPHATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| Q13 HOW OFTEN HAVE YOU READ MAGAZINES ABOUT OCC | CUPATIONS? | | | | | |
| HEVER | 329 | 23 94 | 393 | 28 60 | 465 | 31.25 |
| ONCE | 309 | 22 49 | 230 | 20.38 | 327 | 21 53 |
| A FEW TIMES | 553 | 40 25 | 57 7 | 41 99 | 564 | 37 90 |
| MANY TIMES | 146 | 10 63 | 94 | 6 84 | 84 | 5 65 |
| HOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 1 | 0.07 |
| DON'T KHOW | ٥ | 0 0 | 1 | 0 07 | 2 | 0.13 |
| NO RESPONSE | 37 | 2 69 | 29 | 2 11 | 45 | 3 02 |
| TOTAL | 1374 | 85 98 | 1374 | 86.36 | 1468 | 86.06 |
| Q13 HOW OFTEN HAVE YOU READ PAMPHLETS OR BRIEFS | ABOUT OCCPATIONS? | | | | | |
| HEVER | 443 | 32 24 | 470 | 34 21 | 513 | 34 48 |
| ONCE | 277 | 20.16 | 280 | 20 38 | 313 | 21.03 |
| A FEW TIMES | 484 | 35 23 | 494 | 35 95 | 504 | 33 87 |
| MANY TIMES | 122 | 8 8 9 | 101 | 7 35 | 107 | 7.19 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 1 | 0 07 |
| DOM'T KNOW | 1 | 0 07 | 0 | 0 0 | 0 50 | 0.0 3.36 |
| NO RESPONSE Fotal | 47 1374 | 3 42 95 98 | 29 1374 | 2 11 83 36 | 1488 | 86 C6 |
| | | ,3 ,0 | | 00 00 | • | |
| Q13 HOW OFTEN HAVE YOU READ REPORTS ABOUT JOBS | BY PREVIOUS STUDENTS? | 64 48 | 1038 | 75 55 | 1136 | 76 34 |
| NEVER ONCE | 161 | 11 72 | 143 | 10 41 | 141 | 9.48 |
| A FEW TIMES | 207 | 15 07 | 133 | 10 04 | 130 | 8.74 |
| MANY TIMES | 71 | 5 17 | 23 | 1 67 | 29 | 1.95 |
| NOT APPLICABLE | Ô | 0 0 | ő | 0.0 | 1 | 0 07 |
| DON'T KHOW | 2 | 0 15 | 0 | 0 0 | 0 | 0 0 |
| NO RESPONSÉ | 47 | 3 42 | 32 | 2 33 | 51 | 3 43 |
| TOTAL | 1374 | 85.98 | 1374 | 88.36 | 1483 | 86.06 |
| Q15 WHAT KIND OF OCCUPATIONAL INFO WERE YOU TR | THE TO SET? | | | | | |
| DESCRIPTIONS OF JOB ACTIVITIES | 562 | 44 67 | 601 | 48 08 | 624 | 47.38 |
| PPEPEQUISITES FOR A JCB | 907 | 72 10 | 914 | 73 12 | 956 | 73.35 |
| OUTLOOK FCP JOB OPENINGS IN THE 1980'S | 435 | 34 66 | 508 | 40.64 | 509 | 38.65 |
| HAGE OR SALARY IN AN OCCUPATION | 651 | 51 7 5 | 732 | 59 56 | 706 | 53.61 |
| SATISFACTIONS FROM A JOS | 387 | 30 76 | 381 | 30.48 | 406 | 30 83 |
| A LIST OF OCCUPATIONS YOU MIGHT LIKE | 5-1 | 44 59 | 609 | 48 72 | 626 | 47.53 |
| OTHER KINDS OF INFO ABOUT OCCUPATIONS | 136 | 10 81 | 127 | 10 16 | 155 | 11.77 |
| HOT COOKING FOR ANY SPECIAL INFO | 60 | 4 77 | 74 | 5 92 | 75 | 5 69 |
| NOT AFPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| DOM. L. KINOM | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| NO RESPO ISE | 40 | 3 90 | 23 | 1 84 | 26 | 1 97 |
| TOTAL | 1258 | 78 72 | 1250 | 80 39 | 1317 | 76 17 |
| | | | | | | |



| NUMBE | R OF OBSERVATIONS | _ | RATUMI 598 | | RATUM2 555 | STRATUM3 1729 | |
|-------|---|-----------------|---------------|--------------|---------------|------------------|---------|
| | ITEMS AND ALTERNATIVES | EBEO. | PERCENT | EDEO | PERCENT | 5050 | PERCENT |
| | ACIERIANI IVES | FREW | PERCENT | FREU | PERCENI | FREU | PERCENT |
| 916 | DID YOU FIND THE INFO YOU WANTED? | | | | | | |
| | ALL OF IT | 147 | 12 69 | 149 | 12 86 | 146 | 11 91 |
| | MOST OF IT | 565 | 48 79 | 579 | 49 96 | 603 | 49 18 |
| | SCHE OF IT | 397 | 34 28 | 403 | 34 77 | 451 | 35 15 |
| | HONE OF IT | 20 | 1 73 | 14 | 1 21 | 20 | 1 63 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | ٥ | 0 0 |
| | DON'T KNOW | 0 | 0 0 | 0 | 0 0 | 1 | 0 08 |
| | NO RESPONSE | 2 9 | 2 50 | 14 | 1 21 | 25 | 2 04 |
| | TOTAL | 1158 | 72 47 | 1159 | 74 53 | 1226 | 70 91 |
| Q17 | WAS IT HARD TO UNDERSTAND THE INFORMATION? | | | | | | |
| | YES | 30 | 2 71 | 25 | 2 21 | 21 | 1 78 |
| | SOMETIMES | 333 | 30 03 | 367 | 32 45 | 369 | 31.27 |
| | 110 | 728 | 65 64 | 710 | 62 78 | 765 | 64 83 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| | DCH'T KHOM | o | 0 0 | 0 | 0 0 | 1 | 0 08 |
| | NO RESPONSE | 18 | 1 62 | 29 | 2 56 | 24 | 2 03 |
| | TOTAL | 1109 | 69 40 | 1131 | 72 73 | 1180 | 68 25 |
| Q18 | CAN YOU GET INFORMATION FROM A COMPUTER? | | | | | | |
| | YES | 404 | 25 28 | 303 | 19 49 | 525 | 30 35 |
| | NO | 5 → 9 | 34 36 | 7°6 | 51 19 | 508 | 29 33 |
| | NOT SUPE | 575 | 35 98 | 417 | 26 82 | 625 | 36 15 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| | OCH'T KHOW | 0 | 0 0 | 0 | 0 0 | 2 | 0 12 |
| | NO PESPONSE | 70 | 4 38 | 39 | 2 51 | 69 | 3 99 |
| | TOTAL | 1598 | 100 00 | 155 S | 100 00 | 1709 | 100 00 |
| Q19 | HOM DID YOU LEARN ABOUT OCCUPATIONAL INFORMATIO | ON ON COMPUTERS | | | | | |
| | GUIDANCE STAFF | 210 | 51 98 | 157 | 51 82 | 262 | 49 90 |
| | CAREER EDUCATION SPECIALIST | 64 | 20 79 | 50 | 16 50 | 102 | 19 43 |
| | TEACHER IN CLASS | 122 | 30 20 | 115 | 37 95 | 181 | 34 48 |
| | TEACHER OUTSIDE OF CLASS | 24 | 5 04 | 12 | 3 96 | 27 | 5 14 |
| | SCHOOL LIBRAFIAN | 31 | 7 67 | 42 | 13 86 | 50 | 9 52 |
| | POSTER OF BULLETIN BOARD | 28 | 6 93 | 14 | 4 62 | 36 | 6 85 |
| | SCHOOL NEWSFAFER | 12 | 2 97 | 4 | 1 32 | 15 | 2 86 |
| | FRIEND AT SCHOOL | 151 | 37 38 | 102 | 33 65 | 168 | 32 00 |
| | GROUP VISAT OF OPTENTATION | 30 | 7 43 | 21 | 6 93 | 58 | 11 05 |
| | PANEHLET OR NOTICE | 32 | 7 92 | 13 | 4 29 | 16 | 3 05 |
| | OTHER | 26 | 6 44 | 1 3 | 4 29 | 39 | 7 43 |
| | DON'T REMEMBER | 12 | 2 97 | 7 | 2 31 | 19 | 3 62 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |



| HUMBER OF OBSERVATIONS | _ | RATUM1 598 | | RATUMZ 555 | _ | 729 |
|--|------------|----------------|----------|----------------|-----------|----------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| (ITEM CONTINUED) | | | | | | |
| Q19 HOW DID YOU LEARN ABOUT OCCUPATIONAL INFORMATION ON COP | PUTERS? | | | | | |
| DON'T KHOW | 0 | 0 0 | 0 | 0 0 | 0 | 0,0 |
| NO RESPONSE | 3 | 0 /4 | 2 | 0.66 | 3 | 0.57 |
| TOTAL | 404 | 25 28 | 303 | 19.49 | 525 | 30 . 36 |
| 920 HOW OFTEN HAVE YOU USED THE COMPUTER TO GET OCCUPATION | L INFORMAT | 1047 | | | | |
| NEVER | 207 | 51.24 | 157 | 51.82 | 230 | 43.81 |
| OHC E | 86 | 21 29 | 76 | 25.08 | 148 | 28 19 |
| A FEW TIMES | 84 | 20 79 | 52 | 17 16 | 114 | 21.71 5.71 |
| MANY TIMES NOT APPLICABLE | 20 | 4 95 0 0 | 15 | 5.94 0.0 | 30 1 | 0.19 |
| DON'T KNOW | 0 | 0 0 | 0 | 0 0 | • | 0.17 |
| NO RESPONSE | 7 | 1 73 | 0 | 0 0 | 2 | 0 38 |
| TOTAL | 404 | 25 28 | 303 | 19 49 | 525 | 30.36 |
| DATE WHAT WHAT OF DOCUMENT WEST VOIL TOVING TO CETA | | | | | | |
| Q21 WHAT KIND OF OCC INFO WERE YOU TRYING TO GET? DESCRIPTIONS OF JOB ACTIVITIES | 86 | 45 26 | 67 | 45 89 | 149 | 51.03 |
| PREPERUISITES FOR A JOB | 142 | 74 74 | 111 | 76 03 | 225 | 77.05 |
| OUTLOOK FOR JOB OPENINGS IN THE 1980'S | 73 | 38 42 | 59 | 40 41 | 149 | 51.03 |
| HAGE OR SALARY INFO | 98 | 51 58 | 86 | 58 90 | 179 | 61.30 |
| SATISFACTIONS FROM A JOB | 46 | 24 21 | 45 | 30 82 | 102 | 34 93 |
| LIST OF OCCUPATIONS YOU MIGHT LIKE | 72 | 37 89 | 65 | 44 52 | 146 | 50 00 |
| OTHER INFO | 17 | 8 95 | 21 | 14 38 | 40 | 13.70 |
| NOT LOOKING FOR ANY SPECIAL INFO | 6 | 3 16 | 2 | 1 37 | 14 | 4 79 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 00 |
| OON'T KNOM NO RESPONSE | 0 | 0 0 1 58 | 0 | 0 68 | 1 | 0.34 |
| TOTAL | 190 | 11 89 | 146 | 9.39 | 292 | 16.89 |
| | | | | | | |
| 922 DID YOU GET THE INFO YOU WANTED? | | | | | | 24 22 |
| ALL OF IT | 35 | 19 23 | 35 | 24 31 | 68 | 24 29 51 07 |
| MOST OF IT | 101 39 | 55 49 21 43 | 70 34 | 48 61 23.61 | 143 64 | 22.65 |
| SOME OF IT | 34 | 1 65 | 1 | 0 69 | 3 | 1 07 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| DON'T KNOM | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 |
| NO RESPONSE | 4 | 2 20 | 4 | 2 78 | 2 | 0.71 |
| TOTAL | 182 | 11 39 | 144 | 9 26 | 280 | 16.19 |
| | | | | | | |



| NUMBER OF OBSERVATIONS | _ | RATUM1 598 | _ | PATUM2 555 | STRATUM3 1729 | |
|---|-------------|---------------|------|---------------|------------------|---------|
| ITEMS AND ALTERNATIVES | FPEQ | PERCENT | FREQ | FERCENT | FREQ | PERCENT |
| 923 Was It Hard to Understand The Information? | | | | | | |
| YES | 7 | 4 00 | 4 | 2 88 | 10 | 3.64 |
| SCHETIMES | 49 | 28 00 | 41 | 29 50 | 55 | 20 00 |
| NO | 112 | 64 00 | 89 | 64 03 | 201 | 73 09 |
| HOT APPLICABLE | | 0 0 | 0 | 0 0 | ٥ | 0 0 |
| DON'T KNOW | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| NO RESPONSE | 7 | 4 00 | 5 | 3 60 | 9 | 3 27 |
| TOTAL | 175 | 10 95 | 139 | 8 94 | 275 | 15.91 |
| 924 CAN YOU GET INFO FROM A MICROFICHE? | | | | | | |
| YES | 407 | 25 47 | 358 | 23 02 | 536 | 31.00 |
| NO | 413 | 25 84 | 565 | 36 33 | 393 | 27 15 |
| HOT SUPE | 72 8 | 45 56 | 600 | 38 59 | 739 | 42.74 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 |
| אסוא דיווסם | 0 | 0 0 | 1 | 0 06 | 4 | 0 23 |
| NO PESPONSE | 50 | 3 13 | 31 | 1 99 | 67 | 3.88 |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100.00 |
| Q25 HOW DID YOU LEARN ABOUT DCC INFO ON MICROFICHE? | | | | | | |
| GUIDANCE STAFF | 143 | 35 14 | 157 | 43 85 | 157 | 29 29 |
| CAPEED EDUCATION SPECIALIST | 57 | 14 00 | 47 | 13 13 | 108 | 20 15 |
| TEACHER IN CLASS | 111 | 27 27 | 111 | 31 01 | 156 | 29 10 |
| TEACHER CUTSIDE OF CLASS | 20 | 4 91 | 9 | 2 51 | 19 | 3 54 |
| SCHOOL LISPAPIAN | 140 | 34 40 | 100 | 27 93 | 192 | 35.82 |
| POSTEP OR BULLETIN BOARD | 13 | 3 19 | 9 | 2 51 | 15 | 2 &0 |
| SCHOOL NEWSPAPEP | 9 | 2 21 | 2 | 0 56 | 4 | 0 75 |
| FPIEND AT SCHOOL | 64 | 15 72 | 73 | 20 39 | 97 | 18.10 |
| GROUP VISIT OR CRIENTATION | 28 | 6 88 | 20 | 5 59 | 74 | 13 81 |
| OTHER | 31 | 7 62 | 18 | 5 03 | 42 | 7 84 |
| I DON'T REMEMBER | 13 | 3 19 | 7 | 1.96 | 16 | 2.99 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 |
| DOM, I KHOM | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 |
| NO PESPONSE | 5 | 1 23 | 3 | 0 84 | 1 | 0 19 |
| TOTAL | 407 | 25 47 | 358 | 23 02 | 5 3 6 | 31 00 |



| NUMBI | NUMBER OF OBSERVATIONS | | RATUM1 1598 | | RATUM2 555 | STRATUM3 1729 | |
|-------------|--|-----------|----------------|------|---------------|------------------|---------|
| | ITEMS AND ALTEPHATIVES | FDFO | PERCENT | £850 | PERCENT | £8£0 | PERCENT |
| | | | | FREM | PERCENI | TPEM | PERCENI |
| 924 | HOW OFTEN HAVE TOU USED THE MICROFICHE TO SET OCCUPATION | AL INFORM | TATION | | | | |
| | HEVER | 204 | 50 12 | 194 | 54.19 | 267 | 49.81 |
| | OHC E | 80 | 19 66 | 71 | 19 53 | 126 | 23.51 |
| | 1 FEW TIMES | 10→ | 25 55 | 80 | 22.35 | 115 | 21.46 |
| | MANY TIMES | 13 | 3 '9 | 12 | 3.35 | 26 | 4.85 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 |
| | DO:1, L KHOM | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 |
| | NC TESPONSE | 6 | 1 47 | 1 | 0.28 | 2 | 0.37 |
| | TOTAL | 407 | 25.47 | 358 | 23.02 | 5 36 | 31.00 |
| 927 | WHAT KIND OF INFORMATION WERE YOU TRYING TO GET? | | | | | | |
| | DESCRIPTIONS C: JOB ACTIVITIES | 73 | 37.06 | 82 | 50.31 | 127 | 47.57 |
| | PPEPEQUISITES FOR A JOB | 119 | 60 41 | 109 | 66.87 | 175 | 65.54 |
| | OUTLOOK FOR JOB OPENINGS IN THE 1980'S | 62 | 31.47 | 66 | 40.49 | 105 | 39.33 |
| | HAGE OR SALARY INFO | 86 | 43.65 | 104 | 63.80 | 141 | 52.81 |
| | SATISFACTIONS FROM A JOB | 41 | 20 81 | 50 | 39.67 | 85 | 31.84 |
| | LIST OF COCUPATIONS YOU MIGHT LIKE | 64 | 30 49 | 71 | 43.56 | 91 | 34.08 |
| | OTHER INFO | 23 | 11 68 | 16 | 9 82 | 30 | 11.24 |
| | NOT LOCKING FOR ANY SPECIAL INFO | 24 | 12 18 | 11 | 6.75 | 27 | 10.11 |
| | POT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| | OH'T KNOW | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| | NO PESPONSE | 2 | 1.02 | 2 | 1.23 | 2 | 0.75 |
| | TOTAL | 197 | 12 33 | 163 | 10 48 | 267 | 15.44 |
| 928 | DID YOU GET THE JNFO YOU WANTED? | | | | | | |
| | ALL OF IT | 24 | 13.87 | 21 | 13, 82 | 36 | 14.94 |
| | MOST OF IT | 79 | 45.66 | 86 | 55 55 | 125 | 51.87 |
| | SOME OF IT | 59 | 34 10 | 42 | 27 63 | 75 | 31.12 |
| | NONE OF IT | 4 | 2.31 | 2 | 1.32 | 3 | 1.24 |
| | NOT : PPLIC BLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| | DON'T KNOW | 1 | 0 53 | 0 | 0 0 | 2 | 0.83 |
| | NO RESPONSE | 6 | 3.47 | 1 | 0.66 | 0 | 0.0 |
| | TOTAL | 173 | 10 83 | 152 | 9.77 | 241 | 13.94 |
| Q 29 | Was It Hard to Understand the Information? | | | | | | |
| | YES | 6 | 3,70 | 6 | 4 03 | 8 | 3.39 |
| | SOMETIMES | 36 | 22.22 | 29 | 19.46 | 55 | 23.31 |
| | Ю | 112 | 69 14 | 105 | 71.14 | 162 | 68 54 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0 0 |
| | DON'T KNOW | 0 | 0 0 | 0 | 0.0 | ŏ | 0.0 |
| | NO PES-OUSE | 8 | 4 94 | 8 | 5.37 | 11 | 4.66 |
| | TOTAL | 162 | 10.14 | 149 | 9.58 | 236 | 13.65 |

(CCATINUED)

ERIC

NUMBER OF OBSERVATIONS ITEMS AND

ALTERNATIVES

YES

TOTAL

OTHER

TOTAL

NOT SURE

DO'I'T KNCH

NO RESPONSE

NOT APPLICABLE

GUIDANCE STAFF

TEACHER IN CLASS

SCHOOL LIDPAPIAN

SCHOOL NEWSPAPER

FRIEND AT SCHOOL

I DON'T REMEMBER

NOT APPLICABLE

DON'T KNOW

NO RESPONSE

110

Q30 CAN YOU GET INFO FROM SORTING CARDS?

CAPEER EDUCATION SPECIALIST

TEACHER OUTSIDE OF CLASS

POSTER OR BULLETIN BOARD

GPCUP VISIT OR ORIENTATION

931 HOW DID YOU LEAPN ABOUT OCCUPATIONAL SELECTION BY CARD SORTING?

G32 HOW DETEN HAVE YOU USED SORTING CARDS TO GET OCCUPATION AL INFORMATION?

| | NEVER | 102 | 31 58 | 139 | 38.61 | 173 | 43.91 | |
|-----|--|-----|-------|-----|-------|-----|-------------|-----|
| | | 83 | 25.70 | 94 | 26 11 | 112 | 28.43 | |
| | O) 'CE | | | | | | | |
| | A FEN TIMES | 112 | 34 67 | 111 | 30.83 | 91 | 23 10 | |
| | MANY TIMES | 22 | 6.81 | 16 | 4.44 | 17 | 4.31 | |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | |
| | DON'T KNOW | 1 | 0.31 | 0 | 0.0 | 0 | 0.0 | |
| | NO RESPONSE | 3 | 0 93 | 0 | 0.0 | 1 | 0.25 | |
| | TOTAL | 353 | 20.21 | 360 | 23.15 | 394 | 22.79 | |
| 933 | WHAT KIND OF INFORMATION WERE YOU TRYING TO GET? | | | | | | | |
| | DESCRIPTIONS OF JOB ACTIVITIES | 108 | 49 77 | 98 | 44.34 | 100 | 45.45 | |
| | PPEREQUISITES FOR A JOB | 141 | 64 98 | 138 | 62.44 | 144 | 65.45 | |
| | OUTLOOK FOR JOS OPENINGS | 73 | 33.64 | 95 | 42.99 | 70 | 31.62 | |
| | WAGE AND SALARY INFO | 108 | 49.77 | 120 | 54.30 | 104 | 47.27 | |
| 564 | SATISFACTIONS FROM A JOB | 56 | 25.81 | 73 | 33.03 | 58 | 26 36 | 563 |
| 0 0 | | | | | | | (CONTINUED) | |

STRATUML

1598

FREQ PERCENT

20 21

18 09

56 51

0 0

0.06

5 13

34 06 20 43

31 53

4 64

26 93

3.10

1 55

13 93

6 50

4.02

4.64

0 0

0.0

1 86

20.21

323

289

903

1

82 1598 100 00

110

66 102

15

37

10

5

45

21

13

15

323

STRATUM2

1555

FREQ PERCENT

360

402

752

41

51

15

19

69

12

0

0

360

1555 100.00

174 48.33

14 17

39.17

4.17

22 50 5 28

1 94

19.17

3 33

2 50

2.22

0 0

0.0

0 0

23.15

23 15

25.85

48.36

0.0

0.0

2.64

STRATUM3

1729

FREQ PERCENT

22.79

16 08

57.66

0.0

0 12

3.35

39.85

22.34

23 35

4.57

20.56

2 79

1.02

13.71

11.68

5.84

5 84

0 0

0.0

22.79

173 43.91

0.25

394

273

58

157

92

18

11

54

23

23

0

394

1729 100.00



| ITEMS AND ALTERNATIVES FREQ PERCENT FREQ PERCENT FREQ P (ITEM CONTINUED) | 40.45 9.09 |
|---|---------------|
| (ITEM CONTINUED) | 9.09 |
| | 9.09 |
| Q33 WHAT KIND OF INFORMATION WERE YOU TRYING TO GET? | 9.09 |
| LIST OF OCCUPATIONS YOU MIGHT LIKE 86 39 63 101 45 70 89 | |
| LEARN OTHER INFO 18 8 29 22 9 95 20 | |
| NOT LOOYING FOR ANY SPECIAL INFO 3 1 35 6 3,62 6 | 2.73 |
| NOT AFPLICABLE 0 0 0 0 0 0 0 | 0 0 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.0 |
| NO RESPONSE 3 1 38 4 1.61 1 | 0.45 |
| TOTAL 217 13.58 221 14.21 220 | 12.72 |
| Q34 DID YOU FIND THE INFO YOU WANTED? | |
| ALL OF IT 27 12 80 24 11,48 25 | 11.74 |
| | 47.89 |
| SONE OF IT 78 36 97 81 38.76 74 | 34.74 |
| HONE OF 1T 2 0 95 0 0 0 10 | 4 69 |
| NOT APPLICABLE 0 0 0 0 0 0 | 0.0 |
| DON'T KNOH 0 0 0 0 0 0 0 | 0.0 |
| NO RESPONSE 4 1.90 2 0 96 2 | 0.94 |
| TOTAL 211 13.20 209 13 44 213 | 18.32 |
| Q35 Was It Hard to Understand the Information? | |
| YES 11 5 37 4 1 93 9 | 4 48 |
| SONETIMES 54 26 34 62 29 95 58 | 28 86 |
| NO 131 63 9. 135 65 22 121 | 50 20 |
| NOT APPLICABLE 0 0 0 0 0 0 0 | 0.0 |
| DON'T KNOW 6 0 0 0.0 0 | 0 0 |
| NO RESPONSE 9 4.39 6 2 90 13 | 6.47 |
| TOTAL 205 12.83 207 13.31 201 | 11.63 |
| Q36 SINCE 10TH GRADE HAVE YOU SEEN A FILM OR VIDEO TAPE ABOUT OCCUPATION? | |
| YES 1056 66 08 1063 68 36 1060 | 51.31 |
| | 37.02 |
| NOT APPLICABLE 0 0 0 0 0 0 1 | 0.05 |
| 0 0.0 0 0.0 1 | 0 06 |
| NO RESPONSE 36 2 25 19 1 22 27 | 1 56 |
| TOTAL 1598 100.00 1555 100.00 1729 1 | 0.00 |



| NUMBE | STRATUM1 1598 | | STRATUM2 1555 | | | 729 | | |
|-------|---|----------|------------------|------|------|---------|------|---------|
| | ITEMS AND ALTERNATIVES | FREQ | PER | CENT | FREQ | PERCENT | FREQ | PERCENT |
| 936 | SINCE 10TH GRADE HAVE YOU TAKEN PART IN A SIMULATION? | | | | | | | |
| 7 | YES | 424 | 26 | 53 | 353 | 22 70 | 330 | 21.93 |
| | NO | 1126 | 70 | 46 | 1172 | 75 37 | 1315 | 76.06 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | 0.0 | 1 | 0.06 |
| | OOA, L KHON | 1 | 0 | 06 | 0 | 0 0 | 0 | 0.0 |
| | NO RESPONSE | 47 | 2 | 94 | 30 | 1 93 | 33 | 1 91 |
| | TOTAL | 1598 | 100 | 00 | 1555 | 100 00 | 1729 | 100.00 |
| Q36 | SINCE 10TH GRADE HAVE YOU HAD A SPECIAL COURSE ON OCCU | PATIONS? | | | | | | |
| | YES | 804 | 50 | 31 | 743 | 47 78 | 707 | 40 89 |
| | ОМ | 754 | 47 | 13 | 737 | 50 61 | 989 | 57 20 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | 0 0 | 1 | 0 06 |
| | DON'T KNOW | 0 | 0 | 0 | 0 | 0.0 | 0 | 0.0 |
| | NO PESPONSE | 40 | 2 | 50 | 25 | 1 61 | 32 | 1.85 |
| | TOTAL | 1598 | 100 | 00 | 1555 | 100 00 | 1729 | 100 00 |
| Q36 | SINCE 10TH GRADE HAVE YOU GONE TO A CAREER DAY? | | | | | | | |
| | YES | 700 | 43 | 80 | 589 | 37 88 | 615 | 35 57 |
| | NO | 862 | | 94 | 938 | 60 30 | 1030 | 62.46 |
| | NOT APPLICABLE | 0 | | 0 | 0 | 0 0 | 1 | 0.06 |
| | DON'T KNOW | 0 | _ | 0 | 0 | 0 0 | 0 | 0 0 |
| | NO RESPONSE | 36 | | 25 | 28 | 1 80 | 33 | 1 91 |
| | TOTAL | 1598 | 100 | 00 | 1555 | 100.00 | 1729 | 100 Or |
| Q36 | SINCE 10TH GRADE HAVE YOU BEEN IN A HORKSTUDY PROGRAM . | | | | | | | |
| | YES | 260 | | 27 | 215 | 13 83 | 213 | 12 32 |
| | 110 | 1289 | | 66 | 1304 | 83 86 | 1470 | 85.02 |
| | MOT APPLICABLE | 0 | - | 0 | 0 | 0 0 | 1 | 0 06 |
| | ספאיד אווטא | 0 | | 0 | 0 | 0 0 | . 0 | ΰO |
| | NO RESPONSE | 49 | - | 07 | 36 | 2 32 | 45 | 60 ء |
| | TOTAL | 1508 | 100 | 00 | 1555 | 100 00 | 1729 | 100 00 |
| Q36 | SINCE 10TH GRADE HAVE YOU HAD A TOUR OF A SUSINESS? | | | | | | *-4 | •• / • |
| | YES | 621 | | 86 | 660 | 42 44 | 578 | 33 43 |
| | NO | 936 | | 57 | 874 | 56.21 | 1117 | 64 60 |
| | NOT APPLICABLE | 0 | | 0 | 0 | 0 0 | 1 | 0 06 |
| | DON'T KNOH | 0 | | 0 | 1 | 0 06 | 0 | 0 0 |
| | NO RESPONSE | 41 | | 57 | 20 | 1 29 | 33 | 1.91 |
| | TOTAL | 1508 | 100 | 0.0 | 1555 | 100 00 | 1729 | 100 00 |



| NUMBE | UNTBER OF OBSERVATIONS | | STRATUM1 1595 | | | 'RATUM2 555 | STRATUMS 1729 | |
|-------|--|--------|------------------|------------|-------------|-----------------|------------------|---------|
| | ITEMS AND ALTERNATIVES | FREQ | PER | CENT | FREQ | PERCENT | FREQ | PERCENT |
| 936 | SINCE 10TH GRADE HAVE YOU TAKEN PART IN "JOB SHADOHING"? | | | | | | | |
| | YES | 420 | 26 | 28 | 420 | 27.01 | 393 | 22.73 |
| | NO | 1124 | 70 | 34 | 1102 | 70 87 | 1295 | 74.90 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | 0 0 | 1 | 0 06 |
| | DOM: T KNOW | 0 | - | 0 | O | 0 0 | 1 | 0.06 |
| | NO RESPONSE | 54 | 3 | 38 | 33 | 2 12 | 39 | 2.26 |
| | TOTAL | 1598 | 100 | 00 | 1555 | 100.00 | 1729 | 100.00 |
| Q36 | SINCE 10TH GRADE HAVE YOU HET W/FORMER STUDENTS TO DISCUSS | CCCUPA | TION | s, | | | | |
| | YES | 551 | 36 | 36 | 454 | 29.20 | 419 | 24.23 |
| | NO | 971 | 60 | 76 | 1073 | 69.00 | 1269 | 73.40 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | 0.0 | 1 | 0.06 |
| | DOM: T KNOW | 0 | 0 | . 0 | 0 | 0 0 | 0 | 0.0 |
| | NO RESPONSE | 46 | 5 | 63 | 28 | 1 80 | 40 | 2.31 |
| | TOTAL | 1598 | 100 | . 00 | 1555 | 100 00 | 1729 | 100.00 |
| 936 | STRICE LOTH GRADE HAVE YOU MET WOTHER EMPLOYED PEOPLE? | | | | | | | |
| 4,70 | YES | 778 | 4 A | 69 | 733 | 47.14 | 686 | 39.68 |
| | NO | 781 | _ | 87 | 798 | 51.32 | 1013 | 58 59 |
| | NOT APPLICABLE | 0 | - | Ō | 0 | 0.0 | 1 | 0.05 |
| | DOM'T KHOM | ō | | 0 | 1 | 0 66 | 0 | 0 0 |
| | NO RESPONSE | 39 | - | 44 | 23 | 1.48 | 29 | 1.63 |
| | TOTAL | 1508 | - | 2.4 | 1555 | 100 00 | 1729 | 100 00 |
| 017 | HOW DID YOU LEARN ABOUT ACTIVITIES LISTED IN QUESTION 36? | | | | | | | |
| 43/ | GUIDANCE STAFF | 644 | 40 | 30 | 641 | 41 22 | 636 | 36 78 |
| | CAREER EDUCATION SPECIALIST | 278 | | 40 | 174 | 11.19 | 228 | 13.19 |
| | TEACHER IN CLASS | 744 | | 56 | 7 →1 | 47 65 | 786 | 45.46 |
| | TEACHER OUTSIDE OF CLASS | 167 | | 45 | 154 | 9,90 | 159 | 9.20 |
| | SCHOOL LIERARIAN | 113 | | 07 | 159 | 10 23 | 122 | 7.06 |
| | FOSTER OF BULLETIN BOARD | 237 | | 83 | 206 | 13 25 | 269 | 15 50 |
| | SCHOOL NEWSPAPER | 86 | _ | 33 | 46 | 2.06 | 79 | 4.57 |
| | FRIEND AT SCHOOL | 349 | _ | 84 | 344 | 22.12 | 364 | 21 05 |
| | GEOUP VISIT OR ORIENTATION | 242 | | 14 | 204 | 13.12 | 225 | 13 01 |
| | OTHER | 77 | | 82 | 66 | + 24 | 108 | 6.25 |
| | I DON'T REMEMBER HOW I FOUND OUT | 73 | | 57 | 76 | 4.89 | 133 | 7.69 |
| | I DON'T THINK THIS IS AVAILABLE AT MY SCHOOL | 155 | | 70 | 158 | 17.16 | 178 | 10 29 |
| | NOT APPLICABLE | 0 | | Ó | 150 | 0.0 | 1 | 0 05 |
| | DCW.I KWOM | 0 | - | 0 | 0 | 0 0 | 0 | 0.0 |
| | NO RESPONSE | 43 | | 69 | 35 | £.25 | 39 | 2.25 |
| | TOTAL | 1598 | 100 | _ | 1555 | 100.00 | 1729 | 100.00 |
| | IVIAL | 19-0 | | . . | 4/23 | 100,00 | -,-, | |



| WUMB E | R OF OBSERVATIONS | | RATU! 598 | 11 | | RATUM2 555 | _ | 729 |
|--------|---|---------------|--------------|------|---|---------------|------|--------------|
| | ITEMS AND ALTERNATIVES | FREQ | DFD | TENT | FOFQ | PERCENT | FRFQ | PERCENT |
| | WEIGHHAITES | 7.02.4 | , , | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , 2 | | • |
| 938 | WHAT WERE YOU TRYING TO LEADN FROM THE ACTIVITIES LIS | TED IN QUEST | ION | 36 ° | | | | |
| | DESCRIPTIONS OF JOB ACTIVITIES | 726 | | 78 | 759 | 55 69 | 803 | 52.00 |
| | PREPEGUISITES FOR A JOB | 942 | 67 | 19 | 937 | 68 75 | 953 | 62 78 |
| | OUTLOCK FOR JOS OPENINGS IN THE 1980'S | 500 | 35 | 66 | 526 | 35 59 | 542 | 35 70 |
| | HAGE AND SALAPY INFORMATION | 677 | 43 | 29 | 719 | 52 75 | 669 | 44 07 |
| | SATISFACTIONS FROM A JOB | 400 | 35 | 59 | 478 | 35 07 | 4°8 | 32.81 |
| | LIST OF CCCUPATIONS YOU MIGHT LIKE | 560 | 37 | 94 | 573 | 42 04 | 567 | 37 35 |
| | OTHER INFO | 155 | 11 | 06 | 131 | 9 61 | 130 | 8 56 |
| | NOT LCONING FOR ANY SPECIAL INFO | 68 | 4 | 85 | 90 | 6 60 | 109 | 7 1 8 |
| | HAVE NOT TAKEN PART IN THESE ACTIVITIES | 84 | 5 | 90 | 70 | 5 14 | 115 | 7 53 |
| | NOT APPLCIABLE | 0 | _ | 0 | 0 | 0 0 | 0 | 0 0 |
| | DON'T KHOM | Ď | D | 0 | 0 | 0 C | 0 | 0 0 |
| | NO RESPONSE | 32 | | 38 | 23 | 1 69 | 24 | 1 53 |
| | TOTAL | 1402 | | 73 | 1363 | 87 65 | 1518 | 87 80 |
| 039 | HOW OFTEN HAVE YOU LOOKED FOR OCCUP INFO BECAUSE OF | CLASS ASSIG | SNNFN | 7 ' | | | | |
| 43. | NEVEP | 475 | | 72 | 454 | 29 20 | 635 | 36 73 |
| | CYCE | 287 | 17 | ٥6 | 324 | 20 84 | 376 | 21 75 |
| | A FEW TIMES | 571 | 35 | 73 | 575 | 35 98 | 535 | 30 04 |
| | MANY TIMES | 221 | 13 | 83 | 169 | 10 87 | 138 | 7 93 |
| | NOT AFPLICABLE | 0 | 0 | 0 | ٥ | 0 0 | 1 | 0 06 |
| | DOW'T FROM | 0 | 0 | 0 | 0 | 0 0 | 1 | 0 06 |
| | NO PESPONSE | 44 | 2 | . 75 | 33 | 2 12 | 43 | 2 49 |
| | TOTAL | 1578 | 100 | | 1555 | 1 , 00 | 1729 | 100 00 |
| 039 | HOW OFTEN HAVE YOU LOOKED FOR OCCUP INFO BECAUSE OF | TALK W/COUNSE | LOP | | | | | |
| | NEVER | 572 | | 79 | 537 | 34 53 | 635 | 36.73 |
| | O: CE | 269 | 18 | 09 | 292 | 18 78 | 357 | 20 45 |
| | A FEW TIPES | 500 | | 29 | 539 | 34 06 | 544 | 31 45 |
| | MANY TIMES | 185 | | 53 | 151 | 9 71 | 149 | 8 62 |
| | NOT APPLICABLE | 0 | | 0 | 0 | 0 0 | 1 | 0 06 |
| | DON'T KHOM | ō | • | 0 | 0 | 0 0 | 2 | 0 12 |
| | NO RESPONSE | 52 | | 25 | 35 | 2 32 | 41 | 2 37 |
| | TOTAL | 1599 | 100 | - | 1555 | 100 00 | 1729 | 100 00 |

5 (4)





| NUMBER OF OBSERVATIONS | | | STRATUM1 1598 | | | #ATUM2 .\$55 | STRATUM3 1729 | | |
|------------------------|---|----------------|------------------|-------|------|-----------------|------------------|---------|--|
| | ITEMS AND ALTERNATIVES | FREG | PEF | PCENT | FREQ | PERCENT | FREQ | PERCENT | |
| 939 | HOW OFTEN HAVE YOU LOOKED FOR OCCUP INFO BECAUSE OF | TALK BY SOMEO | NF? | | | | | | |
| | NEVER | 501 | | 60 | 640 | 41.16 | 757 | 43.73 | |
| | ONCE | 347 | | 71 | 326 | 21.09 | 359 | 20.76 | |
| | A FEW TIMES | 553 | _ | 61 | 462 | 29 71 | 491 | 28.40 | |
| | MANY TIMES | 122 | | 7 63 | 80 | 5 14 | 74 | 4 28 | |
| | NOT APPLCIABLE | 0 | | 0 0 | 0 | 0 0 | 1 | 0.06 | |
| | DON'T KNOW | 1 | | 06 | 0 | 0 0 | ŏ | 0.0 | |
| | NO RESPONSE | 54 | | 3 38 | 45 | 2 89 | 47 | 2.72 | |
| | TOTAL | 1598 | | 00 | 1555 | 100.00 | 1729 | 100.00 | |
| 939 | HOW OFTEN HAVE YOU LOOKED FOR OCCUP INFO BECAUSE OF | FTIM AT SCHOOL | 11 7 | | | | | | |
| | HEVER | 567 | | 48 | 595 | 38.33 | 855 | 49.45 | |
| | ONCE | 316 | | 77 | 316 | 20 32 | 304 | 17.58 | |
| | A FEW TIMES | 486 | | 41 | 472 | 30 35 | 422 | 24.41 | |
| | MANY TIMES | 173 | | 83 | 127 | 8.17 | 95 | 5.49 | |
| | NOT APPLICABLE | 0 | | 0 0 | 0 | 0 0 | ĩ | 0.06 | |
| | DON'T KNOW | 0 | | 0 | ì | 0 06 | 2 | 0.12 | |
| | NO RESPONSE | 56 | | 5 5 0 | 43 | 2.77 | 50 | 2.89 | |
| | TOTAL | 1598 | | 00 | 1555 | 100 00 | 1729 | 100.00 | |
| Q39 | HOW OFTEN HAVE YOU LOOKED FOR OCCUP INFO BECAUSE OF | BULLETIN BOAR | יחי | | | | | | |
| | NEVER | 822 | _ | 44 | 874 | 56 21 | 1010 | 58.42 | |
| | ONCE | 259 | | 21 | 209 | 13 44 | 271 | 15.67 | |
| | A FEW TIMES | 335 | | 96 | 324 | 20.84 | 317 | 16 33 | |
| | MANY TIMES | 123 | - | 7.70 | 86 | 5 5 3 | 72 | 4 16 | |
| | NOT AFPLICABLE | 0 | | 0 | 0 | 0 0 | ì | 0 06 | |
| | DOM. I KNOM | 0 | Ċ | 0 | 1 | 0 06 | ī | 0.06 | |
| | NO RESPONSE | 59 | 1 | 69 | 61 | 3.92 | 57 | 3.30 | |
| | TOTAL | 1598 | 100 | 00 | 1555 | 100.00 | 1729 | 100 00 | |
| 939 | HON OFTEN HAVE YOU LOOKED FOR OCCUP INFO BECAUSE OF | TALK W/PAPENT | 52 | | | | | | |
| | HEVER | 274 | | 15 | 2 78 | 17 88 | 345 | 19 95 | |
| | OHCE | 141 | | 82 | 165 | 10 61 | 163 | 9.43 | |
| | A FEH TIMES | 584 | | 55 | 608 | 39.10 | 668 | 38.64 | |
| | MANY TIMES | 552 | | . 54 | 465 | 29 90 | 509 | 29.44 | |
| | NOT AFFLICABLE | 0 | | 0 | 0 | 0.0 | 1 | 0.06 | |
| | DOW'T KNOW | 2 | | 13 | 1 | 0 06 | 2 | 0.12 | |
| | NO PESPONSE | 45 | | 82 | 39 | 2 44 | 41 | 2 37 | |
| | TOTAL | 1598 | | .00 | 1555 | 100.00 | 1729 | 100.00 | |

| NUMBER OF OBSERVATIONS | | RATUMI 598 | | RATUM2 555 | _ | RATUM3 729 |
|-----------------------------------|--------------------------------------|---------------|------|---------------|------|---------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| 939 HOW OFTEN HAVE YOU LOOKED FOR | OCCUP INFO BECAUSE OF EXPERIENCE ON | A JOB? | | | | |
| NEVER | 719 | 44 99 | 734 | 47 20 | 869 | 50.26 |
| DICE | 249 | 15 58 | 209 | 13.44 | 207 | 11.97 |
| A FEW TIMES | 399 | 24 97 | 395 | 25 40 | 398 | 23.02 |
| MANY TIMES | 174 | 10 89 | 159 | 10.16 | 200 | 11.57 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 1 | 0.06 |
| DON'T KNOW | 4 | 0.25 | 0 | 0 0 | 2 | 0.12 |
| NO RESPONSE | 53 | 3 32 | 59 | 3 79 | 52 | 3.01 |
| TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 |
| 939 HOW OFTEN HAVE YOU LOOKED FOR | OCCUP INFO BECAUSE OF TV OR HOVIE? | | | | | |
| NEVER | 743 | 46 50 | 752 | 48 36 | 950 | 55.06 |
| OHCE | 173 | 10.83 | 188 | 12.09 | 182 | 10.53 |
| A FEW TIMES | 463 | 28.97 | 431 | 27.72 | 422 | 24.41 |
| MANY TIMES | 159 | 9 95 | 130 | 8.36 | 111 | 6.42 |
| NOT APPLICABLE | 0 | 0.0 | ٥ | 0.0 | 1 | 0.06 |
| DON'T KNOW | 1 | 0.06 | 0 | 0.0 | 0 | 0.0 |
| NO PESPONSE | 59 | 3 69 | 54 | 3.47 | 61 | 3.53 |
| TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 |
| 939 HOW OFTEN HAVE YOU LOOKED FO | OCCUP INFO BECAUSE OF TALK HERIEND |) 3 | | | | |
| NEVER | 353 | 22 09 | 383 | 24 63 | 453 | 26.20 |
| ONCE | 213 | 13 33 | 228 | 14.66 | 556 | 13.07 |
| A FEW TIMES | 633 | 39 61 | 611 | 39 29 | 696 | 40.25 |
| MANY TIPES | 358 | 22 40 | 284 | 18.26 | 313 | 18.10 |
| NOT AFFLICABLE | 0 | 0.0 | 0 | 0.0 | 1 | 0.06 |
| DOM'T KNOM | 0 | 0 0 | 0 | 0.0 | 2 | 0.12 |
| NO RESPONSE | 41 | 2 57 | 49 | 3.15 | 38 | 2.20 |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100.00 |
| Q40 HOW OFTEN HAVE YOU TALKED M/ | COUNSELOR ABOUT HIGH SCHOOL COURSES? | | | | _ | |
| HEVER | 264 | 16 52 | 275 | 17.68 | 266 | 15 38 |
| ONCE | 270 | 16 90 | 285 | 18.33 | 276 | 15.95 |
| A FEW TIMES | 650 | 40 68 | 665 | 42 77 | 782 | 45.23 |
| MANY TIMES | 387 | 24 22 | 304 | 19.55 | 383 | 22 15 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 1 | 0.06 |
| DO'1. T + NOM | 0 | 0 0 | ٥ | 0.0 | 0 | 0.0 |
| NO RESPONSE | 27 | 1.69 | 26 | 1 67 | 21 | 1.21 |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100.00 |



| BE | R OF OBSERVATIONS | | 1841U 1598 | M) | | RATUM2 555 | - | RATUM3 729 |
|----|--|-------------------|---------------|------|------|---------------|------|---------------|
| | ITEMS AND ALTERNATIVES | FREQ | PER | CENT | FREQ | PERCENT | FREQ | PERCENT |
| 0 | HOW OFTEN HAVE YOU TALKED M/COUNSELOR ABOUT OCCU | PATIONS? | | | | | | |
| | HEVER | 751 | 47 | .00 | 709 | 45.59 | 809 | 46.79 |
| | ONCE | 236 | 17 | . 90 | 266 | 17.11 | 304 | 17.58 |
| | A FEW TIMES | 402 | 25 | . 16 | 460 | 29.58 | 478 | 27.65 |
| | MANY TIMES | 124 | 7 | . 76 | 93 | 5.93 | 109 | 6.30 |
| | NOT AFPLICABLE | 0 | 0 | . 0 | 0 | 0.0 | 1 | 0 06 |
| | DCM'T KHOW | Ž | 0 | . 13 | 6 | 0.0 | 0 | 0.0 |
| | NO RESPONSE | 33 | 2 | . 07 | 27 | 1.74 | 85 | 1.62 |
| | TOTAL | 1598 | 100 | .00 | 1555 | 100.00 | 1729 | 100.00 |
| 0 | HOW OFTEN HAVE YOU TALKED W/COUNSELOR ABOUT PREP | ARING FOR OCCUPAT | rion | | | | | |
| | NEVER | 597 | 37 | . 36 | 586 | 37.68 | 681 | 39.39 |
| | ONCE | 267 | 15 | 71 | 281 | 18.07 | 292 | 16.89 |
| | A FEH TIMES | 477 | 29 | . 85 | 507 | 32 60 | 546 | 31 58 |
| | MANY TIPES | 223 | 13 | 95 | 147 | 9.45 | 179 | 10.35 |
| | NOT APPLICABLE | 0 | 0 | 0 | 0 | 0.0 | 1 | 0.06 |
| | DOM: T KI:0N | 1 | 0 | 06 | 2 | 0.13 | 0 | 0.0 |
| | NO RESPONSE | 33 | 2 | . 07 | 32 | 2.06 | 30 | 1.74 |
| | TOTAL | 1598 | 100 | .00 | 1555 | 100.00 | 1729 | 100.00 |
| 0 | HOW OFTEN HAVE YOU TALKED W/COUNSELOR ABOUT WHER | E TO GET A JOB' | | | | | | |
| | HEVER | 818 | 51 | 19 | 917 | 58 97 | 1031 | 62 52 |
| | ONCE | 544 | 15 | 27 | 229 | 14 73 | 228 | 13 19 |
| | A FEW TIMES | 350 | 21 | . 90 | 306 | 19.68 | 292 | 16.89 |
| | HANY TIMES | 141 | 8 | . 82 | 75 | 4 82 | 92 | 5.32 |
| | NOT APPLICABLE | Ō | 0 | 0 | 0 | 0.0 | 1 | 0.06 |
| | DOM: I KHOM | 2 | 0 | 13 | 1 | 0 06 | ż | 0.12 |
| | NO PESFONSE | 43 | 2 | . 69 | 27 | 1.74 | 33 | 1 91 |
| | TOTAL | 1598 | 132 | .00 | 1555 | 100 00 | 1729 | 100 00 |
| 0 | HOW OFTEN HAVE YOU TALKED W/COUNSELOR ABOUT ATTE | NDANCE OR DISCIPL | .INE? | | | | | |
| - | NEVER | 1167 | 73 | 03 | 1269 | 81.61 | 1290 | 74.61 |
| | DISCE | 175 | 10 | 95 | 104 | 6.69 | 169 | 9.77 |
| | A FEW TIMES | 173 | | . 76 | 115 | 7 40 | 182 | 10.53 |
| | MANY TIMES | 46 | 2 | 83 | 33 | 2.12 | 56 | 3 24 |
| | NOT APPLICABLE | Ō | | 0 | 0 | 0.0 | 1 | 0 06 |
| | DON'T KHON | 1 | 0 | . 06 | 0 | 0.0 | 0 | 0.0 |
| | NO RESPONSE | 37 | 2 | 32 | 34 | 2.19 | 31 | 1 79 |
| | TOTAL | 1508 | 100 | ממ | 1555 | 100.00 | 1729 | 100.00 |



| NUMB | ER OF OBSERVATIONS | | RATUM1 598 | | RATUM2 | - | RATUM3 729 |
|------|---|--------------------|---------------|------|----------------|------|---------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| 940 | HOW OFTEN HAVE YOU TALKED W/COUNSELOR ABOUT PER | SONAL PROBLEMS? | | | | | |
| | NEVER | 1221 | 76.41 | 1355 | 80 71 | 1342 | 77.62 |
| | ONCE | 159 | 9.95 | 131 | 8.42 | 147 | 8.50 |
| | A FEH TIMES | 135 | 8.45 | 107 | 6 88 | 159 | 9.20 |
| | MANY TIMES | 44 | 2.75 | 2.5 | 1.80 | 46 | 2.66 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 1 | 0 06 |
| | DON'T KNOW | 0 | 0.0 | 1 | 0 06 | 0 | 0.0 |
| | NO RESPONSE | 39 | 2.44 | 33 | 2.12 | 34 | 1 97 |
| | TOTAL | 1598 | 100.00 | 1555 | 100 00 | 1729 | 100.00 |
| 941 | HOM OFTEN HAVE YOU TALKED ABOUT OCCUP M/YOUR FR | PIENDS? | | | | | |
| | HEVER | 77 | 4.82 | 64 | 4.12 | 68 | 3.93 |
| | ONCE | 92 | 5 76 | 68 | 4 37 | 83 | 4 30 |
| | A FEH TIMES | 613 | 38.36 | 678 | 43.60 | 706 | 40.83 |
| | MANY TIMES | 787 | 49.25 | 720 | 46.30 | 846 | 48 93 |
| | NOT APPLICABLE | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 |
| | DON: I KNOM | 1 | 0 06 | 0 | 0.0 | 0 | 0 0 |
| | HO RESPONSE | 85 | 1 75 | 25 | 1.61 | 26 | 1.50 |
| | TOTAL | 1593 | 100.00 | 1555 | 100.00 | 1729 | 100.00 |
| 941 | HOW OFTEN HAVE TOU TALKED ABOUT OCCUP M/YOUR PA | RENTS OR RELATIVES | 3? | | | | |
| | NEVER | 68 | 4 26 | 55 | 3 54 | 46 | 2.66 |
| | OHC E | 61 | 3 82 | 52 | 3 34 | 64 | 3 70 |
| | A FEW TIMES | 533 | 33 35 | 533 | 37.81 | 550 | 33.55 |
| | MANY TIMES | 902 | 56 45 | 826 | 53 12 | 1008 | 58.30 |
| | NOT APPLICABLE | 0 | 0.0 | 0 | 0 0 | 0 | 0.0 |
| | DON'T KHOH | 8 | 0 50 | 6 | 0.39 | . 8 | 0.46 |
| | NO RESPONSE | 26 | 1.63 | 28 | 1 80 | 23 | 1 33 |
| | TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 |
| Q41 | | | | | | | |
| | HEVER | 457 | 29 22 | 444 | 28.55 | 501 | 28.98 |
| | ONCE | 296 | 13.52 | 288 | 18 52 | 325 | 18.60 |
| | A FEH TIMES | 505 | 36 61 | 643 | 41.35 | 666 | 39.68 |
| | MANY TIMES | 199 | 12 45 | 141 | 9 07 | 180 | 10.41 |
| | NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0 0 |
| | DON'T KROM | 1 | 0.06 | . 0 | 0.0 | 1 | 0 06 |
| | NO RESPONSE | 50 | 3 13 | 39 | 2.51 | 36 | 2 08 |
| | TOTAL | 1598 | 100.00 | 1555 | 100.0 0 | 1729 | 100 00 |



| NUMBER OF OBSERVATIONS | _ | TRATUH1 1598 | - | RATUMZ 555 | | 72 9 |
|---|---------|-----------------|------|---------------|------|-------------|
| ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| 941 HOW OFTEN HAVE YOU TALKED ABOUT OCCUP W/TEACHERS? | | | | | | |
| NEVER | 407 | 25.47 | 483 | 31.05 | 570 | 32.97 |
| ONICE | 290 | 18.15 | 283 | 18 20 | 323 | 18.68 |
| A FEW TIMES | 718 | 44.93 | 662 | 42.57 | 684 | 39.56 |
| MANY TIMES | 148 | 9 26 | 91 | 5.85 | 121 | 7.00 |
| NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| DON'T KNOW | 7 | 0 44 | 6 | 0.39 | 7 | 0.49 |
| NO RESPONSE | 28 | 1.75 | 30 | 1.93 | 24 | 1.39 |
| TOTAL | 1598 | 100 00 | 1555 | 100.00 | 1729 | 100.00 |
| Q41 HOW OFTEN HAVE YOU TALKED ABOUT OCCUP W/EMPLOYEES IN AN O | CCUP OF | INTERESTY | | | | |
| MEVER | 421 | 26.35 | 415 | 26 69 | 459 | 26.55 |
| DICE | 244 | 15 27 | 569 | 17 30 | 292 | 16.89 |
| A FEH TIMES | 655 | 40.99 | 631 | 40.58 | 634 | 39.56 |
| MANY TIMES | 239 | 14 96 | 203 | 13 05 | 259 | 14.98 |
| NOT AFPLICABLE | 0 | 0 0 | 0 | 0.0 | ٥ | 0.0 |
| DON'T KHOW | 2 | 0.13 | 2 | 0 13 | 5 | 0.29 |
| NO RESPONSE | 37 | 2 32 | 35 | 2 25 | 20 | 1.74 |
| TOTAL | 1598 | 100.00 | 1555 | 100 00 | 1729 | 100.00 |
| Q41 HOW OFTEN HAVE YOU TALKED ABOUT OCCUP W/FORMER STUDENTS? | | | | | | |
| NEVER | 923 | 57 76 | 905 | 58 20 | 1115 | 64.49 |
| O':CE | 251 | 15 71 | 215 | 13 83 | 215 | 12 43 |
| A FEW TIMES | 309 | 19.34 | 357 | 22 96 | 304 | 17.58 |
| MANY TIPES | 72 | 4 51 | 39 | 2.51 | 53 | 3.07 |
| NOT AFPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| DON'T KNOW | 1 | 0.05 | 0 | Ō.O | 3 | 0.17 |
| NO RESFONSE | 42 | 2 63 | 39 | 2 51 | 39 | 2.26 |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100.00 |
| Q41 HOW OFTEN HAVE YOU TALKED ABOUT OCCUP W/STATE EMPLOYMENT | COUMSEL | ORS? | | | | |
| NEVER | 1338 | 83 73 | 1390 | 89 39 | 1591 | 92.02 |
| DICE | 101 | 6.32 | 69 | 4 44 | 53 | 3 0 7 |
| A FEW TIMES | 103 | 6 45 | 52 | 3 34 | 39 | 2.26 |
| MANY TIMES | 16 | 1 00 | 10 | 0 64 | 11 | 0.6→ |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| DON'T KNOW | 0 | 0.0 | 0 | 0 0 | 2 | 0.12 |
| NO RESPONSE | 40 | 2 50 | 34 | 2.19 | 33 | 1.91 |
| TOTAL | 1598 | 100.00 | 1555 | 100 00 | 1729 | 100.00 |

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| 186 | BER OF OBSERVATIONS | | STPATUM1 1598 | | | RATUM2 555 | STRATUM3 1729 | | |
|-----|---|-------------|------------------|-------|------|---------------|------------------|---------|--|
| | ITEMS AND ALTERNATIVES | FREQ | PER | CENT | FREQ | PERCENT | FREQ | PERCENT | |
| •1 | HOM OFTEN HAVE YOU TALKED ABOUT OCCUP W/EMPLOYERS? | | | | | | | | |
| | HEVER | 783 | 49 | .00 | 830 | 53.38 | 949 | 54.89 | |
| | ONCE | 228 | 14 | 27 | 212 | 13 63 | 230 | 13.30 | |
| | A FEW TIMES | 452 | 28 | 29 | 415 | 26 69 | 419 | 24.23 | |
| | MANY TIMES | 93 | 5 | . 82 | 64 | 4 12 | 96 | 5.55 | |
| | NOT APPLICABLE | 0 | C | . 0 | 0 | 0 0 | 0 | 0 0 | |
| | DON'T KNOW | 2 | 0 | .13 | ٥ | 0 0 | 3 | 0.17 | |
| | NO RESPONSE | 40 | á | 50 | 34 | 2.19 | 32 | 1 85 | |
| | TOTAL | 1593 | 100 | 00 | 1555 | 100 00 | 1729 | 100.00 | |
| 1 | HOW OFTEN HAVE YOU TALKED ABOUT OCCUP W/COLLEGE ADMISS | IONS OFFICE | ŔS'n | | | | | | |
| _ | NEVER | 1185 | | . 16 | 1235 | 79 42 | 1377 | 79 64 | |
| | ONCE | 143 | | 1.95 | 128 | 8.23 | 105 | 6.07 | |
| | A FEW TIMES | 160 | 11 | 26 | 140 | 9.00 | 173 | 10 01 | |
| | MANY TIMES | 54 | | 38 | 16 | 1.03 | 37 | 2 14 | |
| | HOT AFPLICABLE | 0 | |).0 | 0 | 0.0 | 0 | 0.0 | |
| | DON'T KNOH | 0 | |),0 | Ō | 0.0 | 0 | 0.0 | |
| | NO RESPONSE | 36 | | . 25 | 35 | 2.32 | 37 | 2.14 | |
| | TOTAL | 1598 | - | 00 | 1555 | 100.00 | 1729 | 100 00 | |
| 1 | HOW OFTEN HAVE YOU TALKED ABOUT OCCUP W/ARMED FORCES RE | CRUITERS? | | | | | | | |
| - | NEVER | 1163 | 72 | 78 | 1124 | 72 28 | 1392 | 80.51 | |
| | ONCE | 163 | | 20 | 167 | 10.7→ | 151 | 8 73 | |
| | A FEW TIMES | 167 | | 45 | 171 | 11 00 | 107 | 6 19 | |
| | MANY TIMES | 62 | | 8 88 | 56 | 3 60 | 41 | 2 37 | |
| | NOT APPLICABLE | ٥ | |).0 | 0 | 0 0 | Ō | 0 0 | |
| | DON'T KNOW | Ď | - |).0 | 0 | 0 0 | Ō | 0 0 | |
| | NO PESPONSE | 43 | - | 2.69 | 37 | 2 38 | 38 | 2.20 | |
| | TOTAL | 1598 | | 00.00 | 1555 | 100 00 | 1729 | 100.00 | |
| 2 | HOW OFTEN HAVE YOU GONE TO A PUBLIC LIBRARY? | | | | | | | | |
| - | NEVER | 555 | 34 | • 73 | 676 | 43.47 | 724 | 41.87 | |
| | ONCE | 175 | _ | 95 | 204 | 13 12 | 209 | 12.09 | |
| | A FEW TIMES | 501 | | 35 | 429 | 27.59 | 450 | 26 60 | |
| | MANY TIMES | 327 | |) 46 | 217 | 13 95 | 300 | 17 35 | |
| | NOT APPLICABLE | 0 | _ | 0 | 0 | 0.0 | 0 | 0 0 | |
| | DON'T KNOW | o | | 0 0 | i | 0 06 | 3 | 0 17 | |
| | NO RESPONSE | 40 | | 50 | 28 | 1.60 | 33 | 1.91 | |
| | TOTAL | 1598 | | 0.00 | 1555 | 100.00 | 1729 | 100.00 | |
| | IVING | 4370 | 100 | | *** | | | | |



| OF DBSERVATIONS | | RATUM1 593 | | RATUH2 .555 | STRATUM3 1729 | | |
|--|------|---------------|------|----------------|------------------|---------|--|
| TTEMS AND | | | | | | | |
| LTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | |
| HOW OFTEN HAVE YOU GONE TO STATE EMPLOYMENT OFFICE? | | | | | | | |
| NEVER | 1233 | 77 16 | 1312 | 84 37 | 1510 | 67.33 | |
| OHCE | 166 | 10 39 | 126 | 8.10 | 105 | 6.07 | |
| A FEW TIMES | 128 | 8.01 | 78 | 5.02 | 64 | 3.70 | |
| MANY TIMES | 24 | 1 50 | 9 | 0.58 | 12 | 0.69 | |
| NOT APPLICABLE | - 0 | 0.0 | 0 | 0 0 | 0 | 0.0 | |
| DON'T KHOM | Ö | 0 0 | 1 | 0 06 | 0 | 0.0 | |
| NO RESPONSE | 47 | 2.94 | 29 | 1.86 | 38 | 2.20 | |
| TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 00.00 | |
| TOW OFTEN HAVE YOU GONE TO REGIONAL CAREER CENTER? | | | | | | | |
| MEVER | 1256 | 78 60 | 1373 | 88.30 | 1454 | 84.09 | |
| ONCE | 135 | 8.45 | 82 | 5.27 | 99 | 5.73 | |
| A FEW TIMES | 117 | 7.32 | 50 | 3.22 | 104 | 6 02 | |
| MANY TIMES | 38 | 2 38 | 18 | 1 16 | 26 | 1.50 | |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | |
| DON'T KNOW | 5 | 0 31 | 0 | 0.0 | 2 | 0.12 | |
| NO RESPONSE | 47 | 2 94 | 32 | 2.06 | 44 | 2.54 | |
| TOTAL | 1598 | 100.00 | 1555 | 100 00 | | 100.00 | |
| HOW OFTEN HAVE YOU GONE TO A LOCAL COLLEGE? | | | | | | | |
| NEVER | 1045 | 65 39 | 1036 | 69 84 | 1257 | 72 70 | |
| ORCE | 207 | 12.95 | 197 | 12.67 | 185 | 10 70 | |
| A FEW TIMES | 232 | 14 52 | 206 | 13 25 | 205 | 11.66 | |
| MANY TIMES | 66 | 4 13 | 34 | 2 19 | 42 | 2 43 | |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 | |
| DON'T KNOW | 0 | 0 0 | 0 | 0 0 | 1 | 0.06 | |
| NO RESPONSE | 48 | 3 00 | 32 | 2.06 | 39 | 2.26 | |
| TOTAL | 1598 | 100 00 | 1555 | 100.00 | 1729 | 100.00 | |
| ON OFTEN HAVE YOU GONE TO A PRIVATE EMPLOYMENT AGENCY? | | | | | | | |
| NEVER | 1343 | 84.04 | 1396 | 89 77 | 1541 | 89.13 | |
| ONCE | 102 | 6 38 | 58 | 3.73 | 66 | 3.62 | |
| A FEW TIMES | 80 | 5.01 | 51 | 3.28 | 8 o | 3.93 | |
| MANY TIMES | 18 | 1.13 | 12 | 0.77 | 8 | 0.46 | |
| NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| DON'T KNOW | 3 | 0 19 | 4 | 0.26 | 5 | 0.12 | |
| NO RESPONSE | 52 | 3.25 | 34 | 2.19 | 44 | 2.54 | |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100.00 | |

| HUMBI | ER OF OBSERVATIONS | | RATUH) 1598 | | RATUM2 555 | _ | RATUM3 729 |
|-------|---|------|----------------|------|---------------|------|---------------|
| | ITEMS AND ALTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERLENT |
| 942 | HOM OFTEN HAVE YOU GONE TO AN ARMED FORCES RECRUITER? | | | | | | |
| | NEVER | 1319 | 82 54 | 1272 | 81.80 | 1485 | 85.89 |
| | ONCE | 107 | 6 70 | 127 | 8.17 | 108 | 6.25 |
| | A FEW TIMES | 87 | 5 44 | 83 | 5 66 | 63 | 3.64 |
| | MANY TIMES | 36 | 2.25 | 32 | S 06 | 30 | 1.74 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| | DON'T KNOW | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| | NO RESPONSE | 49 | 3 07 | 36 | 2 32 | 43 | 2.49 |
| | TOTAL | 1598 | 100.00 | 1555 | 100 00 | 1729 | 100.00 |
| 942 | HOW OFTEN HAVE YOU GONE TO AN EMPLOYER? | | | | | | |
| | NEVER | 776 | 48 56 | 825 | 53.05 | 963 | 55.70 |
| | Once . | 265 | 16.58 | 263 | 16.91 | 218 | 12.61 |
| | A FEW TIMES | 385 | 24.09 | 355 | 22.63 | 392 | 22.67 |
| | MANY TIMES | 126 | 7 88 | 78 | 5.02 | 117 | 6.77 |
| | NOT APPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 |
| | DON'T KHOM | 1 | 0 06 | 0 | 0.0 | 1 | 0.06 |
| | NO PESPONSE | 45 | 2 82 | 34 | 2 19 | 36 | 2.20 |
| | TOTAL | 1598 | 100 00 | 1555 | 100.00 | 1729 | 100.00 |
| 943 | CAN YOU GET ALL TOUR OCCUP INFO FROM RESDURCES AT SCHOOL? | | | | | | |
| | YES | 508 | 31.79 | 478 | 30.74 | ٠, ٠ | 34.12 |
| | NO | 571 | 35 73 | 586 | 37.68 | 524 | 36.09 |
| | NOT SUPE | 464 | 29 04 | 452 | 29.07 | 456 | 26.95 |
| | NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| | DO-1.1 KNOH | 2 | 0 13 | 3 | 0 19 | 3 | 0.17 |
| | NO RESPONSE | 53 | 3.32 | 36 | 2 30 | 46 | 2.66 |
| | TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 |
| 944 | HOW SUPE ARE YOU ABOUT THE OCCUP YOU HANT TO ENTER? | | | | | | |
| | EXACTLY | 591 | 36 98 | 489 | 31.45 | 618 | 35.74 |
| | TRYING TO DECIDE BETWEEN 2 | 486 | 30 41 | 478 | 30.74 | 523 | 30.25 |
| | THINKING ABOUT 3 OR HORE | 342 | 21 40 | 418 | 26.28 | 425 | 24.58 |
| | NO OCCUP IN MIND | 140 | 8 76 | 142 | 9 13 | 131 | 7.55 |
| | NOT AFPLICABLE | 0 | 0 0 | 0 | 0.0 | 0 | 0.0 |
| | DON'T KNOW | 2 | 0 13 | 5 | 0.13 | 4 | 0.23 |
| | -O FESPONSE | 37 | € 32 | 56 | 1.67 | 28 | 1.62 |
| | TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 |



| OF OBSERVATIONS | _ | RATUM1 598 | | RATUM2 555 | _ | RATUM3 729 |
|---|----------------|---------------|-------------|---------------|------|---------------|
| ETEMS AND LTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| HOM WELL DO TOU KNOW WHAT YOU WANT FROM AN OCCUP? | | | | | | |
| EXACTLY | 439 | 27 47 | 345 | 22 19 | 454 | 26 26 |
| GENERAL IDEA | 934 | 58 45 | 973 | 62.57 | 1052 | 60.84 |
| NOT SUPE | 154 | 9 64 | 175 | 11.25 | 165 | 9.54 |
| NO IDEA | 33 | 2 07 | 35 | 2 35 | 25 | 1.45 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| DON'T KNOW | 1 | 0 06 | 2 | 0 13 | 5 | 0 29 |
| NO RESPONSE | 37 | 2 33 | 25 | 1.61 | 28 | 1.62 |
| TOTAL | 1598 | 100 00 | 1555 | 100 00 | 1729 | 100.00 |
| HOW MUCH DO YOU KNOW ABOUT THIS DECUPATION? | | | | | | |
| A GREAT DEAL | 523 | 32 73 | 490 | 31 51 | 573 | 33.14 |
| SCHE | 777 | 48.62 | 837 | 53 83 | 912 | 52.75 |
| VERY LITTLE | 187 | 11 70 | 135 | 8 68 | 130 | 7.52 |
| NOTHING | 45 | 2 82 | 60 | 3 86 | 60 | 3.47 |
| NOT APPLICABLE | 0 | 0 0 | 0 | 0 0 | 0 | 0.0 |
| DOM'T KNOW | 8 | 0 50 | 5 | 0 32 | 7 | 0 40 |
| HO RESPONSÉ | 58 | 3 63 | 28 | 1 60 | 47 | 2.72 |
| TOTAL | 1598 | 100.00 | 1555 | 100.00 | 1729 | 100.00 |
| HERE DID YOU GET YOUR OCCUPATIONAL INFORMATION FROM | IN QUESTION | 467 | | | | |
| 1 TEACHERS | 773 | 51 98 | 694 | 47.47 | 744 | 46.07 |
| 2 COUNSELORS | 584 | 39 27 | 603 | 41 59 | 646 | 40.00 |
| 3 PRINCIPAL OR ASSISTANT PRINCIPAL | 37 | 2 49 | 42 | 2 87 | 30 | 1.86 |
| 4 LIERAPIAN | 172 | 11 57 | 182 | 12 45 | 146 | 9.04 |
| 5 FRIE:40\$ | 785 | 52 86 | 77 9 | 53 28 | 872 | 53 99 |
| 6 SOMEONE ELSE AT SCHOOL | 200 | 13 45 | 179 | 12 24 | 185 | 11.46 |
| 7 PAPENTS OR RELATIVES | °51 | 65 97 | 998 | 68.26 | 1118 | 69.23 |
| 8 FPIENDS OUTSIDE SCHOOL | 555 | 37 32 | 567 | 38 78 | 627 | 38.82 |
| 9 SOMEONE IN THIS FIELD | 740 | 50 37 | 805 | 55.13 | 890 | 55 67 |
| 10 EMPLOYMENT SERVICE PEP | 83 | 5 58 | 41 | 2 80 | 53 | 3.28 |
| 11 SOMEONE ELSE OUTSIDE SCHOOL | 310 | 20 85 | 285 | 19.49 | 328 | 20.31 |
| 12 POCKS, MAGAZĪNĒS, PAMFHLĒTS, REPOPTS | -69 | 65 16 | 1027 | 70.25 | 1008 | 62.41 |
| 13 FILMS, TAPES, CASSETTES | 301 | 20 24 | 297 | 20 31 | 280 | 17 34 |
| 14 MICROFICHE | 73 | 5 25 | 78 | 5 34 | 100 | 6.75 |
| 15 CONFUTER | 127 | 8.54 | 90 | 6.16 | 185 | 11.46 |
| 16 OTHER MATERIALS AT SCHOOL | 538 | 15 01 | 560 | 17.78 | 258 | 15.98 |
| 17 PUBLIC LIBPARY | 618 | 41 56 | 495 | 33.93 | 563 | 34.85 |
| 18 DISTRICT OR REGIONAL CAREER CENTER | 119 | 8.00 | 64 | 4 38 | 69 | 5.51 |
| 19 STATE EMPLO:MENT OFFICE | 78 | 5.25 | 67 | 4.58 | 46 | 2.85 |
| 20 DTHER PLACE OUTSIDE OF SCHOOL | 497 | 33 42 | 491 | 33 58 | 472 | 29.23 |
| 21 CAREER DAYS OR ASSEMBLY PROGRAMS | 499 | 33 56 | 427 | 29.21 | 437 | 27.06 |

ERIC SATUITENT PROVIDED BY ERIC

| OF OBSERVATIONS | 1 | 598 | 1 | 555 | 1 | 729 |
|--|-------------|----------|------|---------|------|---------|
| LTEMS AND LTERNATIVES | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| ITEM CONTINUED) | | | | | | |
| MERE DID YOU GET YOUR OCCUPATIONAL INFORMATION FROM | | 46? | | | | |
| 22 CAREER CLUBS | 1 36 | 9.15 | 84 | 5.75 | 66 | 4.09 |
| 23 CLASSES IN CAREER PLANNING | 336 | 22.60 | 282 | | 267 | 16.53 |
| 24 JOS SHIDOWING (OBSERVING A WORKER) | 182 | 12 24 | 177 | | 146 | 9.04 |
| 25 VISITS TO JOB SITES | 355 | 23.87 | 341 | 23.32 | 300 | 18.58 |
| E6 HCRK STUDY OR INTERNISHIP PROGRAMS | 114 | 7.67 | 95 | 6.50 | 101 | 6.25 |
| 27 VOLUNTEER WORK APRANGED BY SCHOOL | 109 | 7.33 | 95 | 6.50 | 85 | 5.26 |
| 28 MEETING WITH FORMER STUDENTS | 150 | 10.09 | 129 | 8.82 | 122 | 7.55 |
| 29 MEETING WITH OTHER WORKERS OR EMPLOYERS | 273 | 18.36 | 264 | | 240 | 14.85 |
| 30 OTHER ACTIVITIES APRANGED BY SCHOOL | 185 | 12.44 | 167 | 11.42 | 167 | 10.34 |
| 31 MORK | 451 | 30.33 | 495 | 33.86 | 502 | 31.09 |
| 32 HATCHING PEOPLE AT HORK | 452 | 30 40 | 436 | 33.24 | 535 | 33.13 |
| 33 HATCHING TV | 532 | 35.78 | 538 | 36.80 | 514 | 31.83 |
| 34 MOVIES | 280 | 13.83 | 288 | 19.70 | 308 | 19.07 |
| 35 CLU35 | 164 | 11.03 | 225 | 15 39 | 145 | 8.98 |
| 36 GENERAL READING | 573 | 38.53 | 538 | | 632 | 39.13 |
| 37 OTHER ACTIVITIES OUTSIDE SCHOOL | 393 | 26.43 | 376 | | 439 | 27.18 |
| PEOPLE AT SCHOOL (Q. 1 - 6) | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| PEOPLE OUTSIDE OF SCHOOL (Q. 7 - 11) | 0 | 0.0 | 0 | C O | 0 | 0.0 |
| MATERIALS AT SCHOOL (Q. 12 - 16) | 0 | | 0 | | 0 | 0.0 |
| PLACES TO GET INFORMATION OUTSIDE OF SCHOOL (Q) | 7 - 2 0 | 0 0 | 0 | | 0 | 0 0 |
| ACTIVITIES APRANGED BY SCHOOL (Q. 21 - 30) | 0 | | 0 | 0.0 | 0 | 0.0 |
| ACTIVITIES OUTSIDE OF SCHOOL (Q. 31 - 37) | 0 | 0 0 | 0 | | 0 | 0 0 |
| NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 0 0 |
| DON'T KNOM | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| NO RESPONSE | 12 | 0.81 | 2 | 0.14 | 8 | 0.50 |
| TOTAL | 1487 | 93.05 | 1462 | 94.02 | 1615 | 93 41 |
| HOW MUCH DO YOU KNOW ABOUT THE PREREQUISITES FOR THE | JOB IN QUES | TION 46? | | | | |
| A GREAT DEAL | 506 | 34.03 | 470 | | 588 | 36.41 |
| SOME | 745 | 50 10 | 739 | | 845 | 52.32 |
| VERY LITTLE | 157 | | 150 | | 128 | 7, 93 |
| NOTHING | 50 | 3 36 | 45 | 3.08 | 34 | 2.11 |
| NOT APPLICABLE | 0 | 0.0 | 0 | | 0 | 0.0 |
| DON T KNOW | 0 | 0.0 | 0 | | 2 | 0.12 |
| NO RESPONSE | 29 | | 8 | | 18 | 1.11 |
| TOTAL | 1487 | 93.05 | 1462 | 94.02 | 1615 | 93.41 |

STRATUML

STRATUME

(CONTINUED)

STRATUM3



| OF OBSERVATIONS | | STRATUM1 1598 | | | RATUM2 555 | \$TRATUM3 1729 | | |
|---|--------------|------------------|---------|------|---------------|-------------------|---------------|--|
| TEMS AND TERNATIVES | | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | |
| 1200012723 | | | | | • | | | |
| OURCES OF PREREQUISITES INFO: | | | | *** | | | | |
| 1 TEACHERS | | 166 | 11.79 | 144 | 10.22 | 158 | 10.12 7.56 | |
| 2 COUNSELORS | | 99 | 7.03 | 143 | 10.15 | 118 | 0.05 | |
| 3 PRINCIPAL OR ASSISTANT PRINCIPAL | | 4 | 0 28 | 1 | 0 07 | 1 | 0.05 | |
| 4 LIBRAPIAN | | 4 | 0.28 | 4 | 0 28 | 5 | _ | |
| 5 FRIENDS | | 39 | 2 77 | 53 | 3.76 | 52 | 3.33 | |
| 6 SOLEONE ELSE AT SCHOOL | | 4 | 0.28 | | 0.35 | 6 | 0 38 | |
| 7 PARENTS OR RELATIVES | | 213 | 15.13 | 215 | 15 26 | 272 | 17 42 | |
| 8 FRIENDS OUTSIDE SCHOOL | | 30 | 2.13 | 16 | 1.14 | 34 | 2 18 | |
| 9 SOMEONE IN THIS FIELD | | 156 | 11 03 | 153 | 11.21 | 198 | 12.68 | |
| 10 EMPLOYMENT SERVICE REP | | 8 | 0 57 | 3 | 0.21 | 1 | 0.06 | |
| 11 SOMEONE ELSE OUTSIDE SCHOOL | | 31 | 5 50 | 32 | 2 27 | 36 | 2.31 | |
| 12 BOCKS, MAGAZINES, PAMPHLETS, REPORTS | | 184 | 13 07 | 225 | 15.97 | 201 | 12.88 | |
| 13 FILMS, TAPES, CASSETTES | | 6 | 0 43 | 11 | 0 78 | 11 | 0.70 | |
| 14 MICROFICHE | | 12 | 0 85 | 9 | 0.64 | 12 | 0.77 | |
| 15 CCHPUTER | | 20 | 1 42 | 14 | 0 99 | 47 | 3.01 | |
| 16 OTHER MATERIALS AT SCHOOL | | 9 | 0.64 | 3 | 0.21 | 5 | 0,32 | |
| 17 FUBLIC LIBRAPY | | 37 | 2 63 | 2.5 | 1.56 | 33 | 2.11 | |
| 18 DISTRICT OF REGIONAL CAREER CENTER | | 1 | 0 07 | 1 | 0.07 | 5 | 0.32 | |
| 19 STATE EMPLOYMENT OFFICE | | 1 | 0.07 | 0 | 0 0 | 0 | 0.0 | |
| 20 OTHER PLACE OUTSIDE OF SCHOOL | | 26 | 1.85 | 20 | 1.42 | 22 | 1.41 | |
| 21 CAREER DAYS OR ASSEMBLY PROGRAMS | | 33 | 2 34 | 37 | 2 63 | 29 | 1 86 | |
| 22 CAREER CLUBS | | 4 | 0.28 | 2 | 0 14 | 1 | 0 06 | |
| 23 CLASSES IN CAREER PLANNING | | 25 | 1.78 | 14 | 0.99 | 19 | 1.22 | |
| 24 JCB SHADOWING (CBSERVING A WORKER) | | 7 | 0 50 | 8 | 0.57 | 10 | 0 64 | |
| 25 VISITS TO JOB SITES | | 16 | 1.14 | 10 | 0.71 | 10 | 0.64 | |
| 26 HOPK STUDY CR INTERNSHIP PROGRAMS | | 11 | 0.78 | 9 | 0 64 | 3 | 0.19 | |
| 27 VOLUMITEER HOPK APPANGED BY SCHOOL | | 4 | 0 28 | 5 | 0.35 | 5 | 0 32 | |
| 28 MEETING WITH FORMER STUDENTS | | 1 | 0.07 | 2 | 0 14 | 4 | 0.26 | |
| 29 MEETING WITH OTHER WORKERS OR EMPLOYERS | | 8 | 0 57 | 10 | 0.71 | 16 | 1,02 | |
| 30 OTHER ACTIVITIES ARRANGED BY SCHOOL | | 8 | 0 57 | 6 | 0.43 | 6 | 0.38 | |
| 31 MOPK | | 34 | 2 41 | 64 | 4.54 | 57 | 3.65 | |
| 32 WATCHING PEOPLE AT WORK | | 24 | 1.70 | 24 | 1 70 | 20 | 1.28 | |
| 33 HATCHING TV | | 9 | 0 64 | 18 | 1.28 | 12 | 0.77 | |
| 34 MOVIES | | 0 | 0 0 | 2 | 0 14 | 3 | 0.19 | |
| 35 CLUBS | | 10 | 0 71 | ā | 0.57 | 14 | 0.90 | |
| 36 GENEPAL READING | | 36 | 2.56 | 23 | 1.63 | 31 | 1.99 | |
| 37 OTHER ACTIVITIES OUTSIDE SCHOOL | | 11 | 0 78 | 12 | 0.85 | 27 | 1.73 | |
| PEOPLE AT SCHOOL | (Q. 1 - | 6 | 0 43 | 2 | 0.14 | 5 | 0.32 | |
| = | Q. 7 - | 6 | 0.43 | 5 | | 7 | 0.45 | |
| PEOPLE OUTSIDE OF SCHOOL | (0. 12 - | 5 | 0.36 | 3 | | 6 | 0.39 | |
| MATERIALS AT SCHOOL | (Q. 12 - | 0 | 0.30 | 1 | 0.07 | ž | 0.13 | |
| PLACES TO GET INFORMATION OUTSIDE OF SCHOOL | t We . 1./ ↑ | J | V | • | 4.4 7 | • | | |

| R OF OBSEPVATIONS | | | | _ | RATU 598 | H1 | _ | RATUM2 55 5 | _ | RATUM3 729 |
|--|---------|-----|----|-------|-------------|------------|------|-----------------------|------|---------------|
| ITEMS AND ALTERNATIVES | | | | | | | | | | |
| ALIERIANITYES | | | | FREQ | PER | CENT | FREQ | PERCENT | FREQ | PERCENT |
| ITEM CONTINUED) | | | | | | | | | | |
| SOURCES OF PREREQUISITES INFO. | | | | | | | | | | |
| ACTIVITIES ARRANGED BY SCHOOL | { Q | 21 | - | 2 | 0 | 14 | 3 | 0 21 | 4 | 0 26 |
| ACTIVITIES CUISIDE OF SCHOOL | (Q | 31 | - | 4 | 0 | 28 | 3 | 0 21 | 6 | 0 38 |
| NOT APPLICABLE | | | | 0 | 0 | 0 | 0 | 0 0 | 0 | 0.0 |
| DCH - T KHOW | | | | 1 | 0 | 07 | 1 | 0.07 | 4 | 0 26 |
| NO RESPONSE | | | | 195 | 13 | 85 | 122 | 8 66 | 150 | 10 19 |
| TOTAL | | | | 1408 | 88 | 11 | 1409 | 00 61 | 1561 | 90.28 |
| HOW MUCH DO YOU KNOW ABOUT WAGES OR SALARIES | FOR THE | JCB | IN | QUEST | ION | 46? | | | | |
| A GPEAT DEAL | | | | 303 | 20 | 38 | 283 | 19.36 | 330 | 20.43 |
| SOME | | | | 641 | 43 | . 11 | 690 | 47 20 | 761 | 47.12 |
| VERY LITTLE | | | | 293 | 19 | 70 | 278 | 19 02 | 299 | 18.51 |
| NOTHINS | | | | 166 | 11 | 16 | 165 | 11 29 | 156 | 9.66 |
| NO APPLICABLE | | | | 0 | 0 | 0 | 0 | 0.0 | 0 | 0.0 |
| DOM'T KNOH | | | | 0 | 0 | 0 | 1 | 0.07 | 2 | 0.12 |
| NO RESPONSE | | | | 84 | 5 | 65 | 45 | 3.08 | 67 | 4.15 |
| TOTAL | | | | 1487 | 93 | 05 | 1462 | 94.02 | 1615 | 93.41 |
| SOURCES OF HAGE & SALARY INFO | | | | | | | | | | |
| 1 TEACHEPS | | | | 109 | 8 | 81 | 90 | 7 19 | 100 | 7 19 |
| 2 COUNSELOPS | | | | 44 | 3 | 56 | 70 | 5.60 | 55 | 3.95 |
| 3 PPINCIPAL OR ASSISTANT PRINCIPAL | | | | 6 | 0 | 49 | 4 | 0.32 | 1 | 0.07 |
| 4 LIERARIAN | | | | 4 | 0 | 32 | 5 | 0 40 | 5 | 0 35 |
| 5 FPIENOS | | | | 29 | Ę | 34 | 45 | 3 69 | 36 | 2 59 |
| 6 SDMEOME ELSE AT SCHOOL | | | | 7 | ٥ | 57 | 4 | 0 32 | 3 | 0 22 |
| 7 PAPENTS DO RELATIVES | | | | 165 | 13 | 34 | 191 | 15 27 | 253 | 18 20 |
| 8 FPIENDS OUTSIDE SCHOOL | | | | 19 | 1 | 54 | 14 | 1 12 | 33 | 2.73 |
| 9 SOMECHE IN THIS FIELD | | | | 152 | 12 | 2 9 | 174 | 13 91 | 198 | 14 24 |
| 10 EMPLOYMENT SERVICE REP | | | | 9 | 0 | 73 | 4 | 0 32 | 2 | 0 14 |
| 11 SOMEONE ELSE OUTSIDE SCHOOL | | | | 39 | 3 | 15 | 26 | 2 06 | 30 | 2,16 |
| 12 BOOKS, MAGAZINES, PAMPHLETS, REPORTS | | | | 100 | 15 | 36 | 234 | 18 71 | 192 | 13 81 |
| 13 FILMS, TAPES, CASSETTES | | | | 9 | 0 | 73 | 11 | 0 85 | 4 | 0.29 |
| 14 MICPOFICHE | | | | 14 | 1 | 13 | 13 | 1 04 | 14 | 1 01 |
| 15 CONFUTER | | | | 30 | 2 | 43 | 17 | 1.36 | 57 | 4 10 |
| 16 OTHER MATERIALS AT SCHOOL | | | | 6 | 0 | 49 | 9 | 0 72 | 7 | 0 50 |
| 17 PUBLIC LIBRARY | | | | 31 | 2 | 51 | 20 | 1 60 | 25 | 1.80 |
| 18 DISTRICT OR PEGICNAL CAFEER CENTER | | | | 3 | 0 | 24 | 4 | 0 32 | 6 | 0,43 |
| 19 STATE EMPLOYMENT OFFICE | | | | 5 | 0 | 40 | 3 | 0.24 | 2 | 0 14 |
| 20 OTHER PLACE OUTSIDE OF SCHOOL | | | | 12 | 0 | 97 | 22 | 1 76 | 17 | 1 22 |
| 21 CAREER DAYS OR ASSEMBLY PROGRAMS | | | | 26 | 2 | 10 | 30 | 2 40 | 26 | 1 87 |



| DF OBSERVATIONS | | _ | TRATUM1 1598 | | TRATUM2 1555 | | ratum3 1729 | |
|---|-------------|--------|-----------------|------------|--------------------------------------|------------|----------------|-----------|
| TEMS AND Ternatives | | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT | т ! |
| TEN CONTINUED) | | | | | | | | |
| OURCES OF MAGE & SALARY INFO 22 CAREER CLUBS 23 CLASSES IN CAREER PLANNING 24 JOB SMADONING LOBSEPVING A MORKER) 25 VISITS TO JOB SITES 26 MORK STUDY OR INTERNSHIP PROGRAMS 27 VOLUNTEER WORK ARRANGED BY SCHOOL 28 MEETING WITH FORMER STUDENTS 29 MEETING WITH OTHER WORKERS OR EMPLOYERS 30 OTHER ACTIVITIES ARRANGED BY SCHOOL 31 MORK 32 MATCHING TV 34 MOVIES 35 CLUBS 36 GENERAL PEADING 37 OTHER ACTIVITIES OUTSIDE SCHOOL PEOPLE AT SCHOOL PEOPLE CUTSIDE OF SCHOOL MATEPIALS AT SCHOOL PLACES TO GET INFORMATION OUTSIDE OF SCHOOL ACTIVITIES ARRANGED BY SCHOOL | | | _ | | | 2 | - 34 | |
| 22 CAREER CLUBS | | 2 | 0 16 | 1 12 | 0 05 | 2 11 | 0.14 | |
| 23 CLASSES IN CAREER PLANNING | | 23 | 1.86 | 12 | 0.96 0.40 | 11 | | |
| 24 JCB SHADONING (OBSEPVING A WORKER) | | 1 | 0 08 | 5 | 0 40 | 6 | 0.43 | |
| 25 VISITS TO JOB SITES | | 11 | 0.89 | 5 | 0.40 | 7 | 0.50 | |
| 26 HORK STUDY OR INTERNSHIP PROGRAMS | | 4 | 0 32 | 7 | 0 56 | 3 | 0.22 | |
| 27 VOLUNTEER WORK ARRANGED BY SCHOOL | | 1 | 0 08 | 1 | 0.40 0.56 0.08 0.24 2.08 | 1 | 0.07 | |
| 28 MEETINS WITH FORMER STUDENTS | | 2 | 0 16 | 3 | 0 24 | 3 | 55.0 | |
| 29 MEETING WITH OTHER WORKERS OR EMPLOYERS | | 2.5 | 1 78 | 26 | 2 08 | 20 | 1.44 | |
| 30 OTHER ACTIVITIES ARRANGED BY SCHOOL | | 6 | 0.49 | 4 | 0.32 | . 6 | 9.43 | |
| 31 WORK | | 41 | 3 31 | 53 | 4.24 | 53 | 3 81 | |
| 32 WATCHING PEOPLE AT WORK | | 9 | 0 73 | 7 | 0.56 0.72 0.08 | 9 | | |
| 33 WATCHING TV | | 9 | 0 73 | 9 | 0 72 | 9 | 0 65 | |
| 34 MOVIES | | 3 | 0.24 | 1 | 0.08 | 1 | | |
| 35 CLUES | | 3 | 0 24 | 4 | 0 32 | 3 | | |
| 36 GENERAL PEADING | | 30 | 2 43 | 31 | 0 32 2 43 | 48 | 3.45 | |
| 37 OTHER ACTIVITIES OUTSIDE SCHOOL | | 6 | 0 40 | 5 | 0.49 | 9 | 0.65 | |
| PEOPLE AT SCHOOL | (Q 1 - | 2 | 0 16 | 1 | 0 05 | 3 | 0.22 | |
| PERFLE CUTSIDE OF SCHOOL | (Q 7 - | 4 | 0 32 | 7 | 0.56 | 11 | 0.79 | |
| MATEPIALS AT SCHOOL | (Q 12 - | 5 | 0.40 | 3 | 0.24 | 8 | 0.58 | |
| PLACES TO GET INFORMATION OUTSIDE OF SCHOOL | (Q 17 - | 1 | 0 08 | 1 | 0 08 | 0 | 0.0 | |
| ACTIVITIES ARRANGED BY SCHOOL | 10 21 - | 0 | 0.0 | 3 | 0 24 | ż | 0.14 | |
| ACTIVITIES OUTSIDE OF SCHOOL | (Q. 31 - | 2 | 0 16 | 0 | 0,0 | 5 | 0 36 | |
| NOT APPLICABLE | · | o | 0 0 | 0 | 0 0 | 0 | 0.0 | |
| מסייד אוויש | | 3 | 0 24 | 3 | 0 24 | 2 | 0 14 | |
| NU BEZEUNZE | | 204 | 16 49 | 12+ | 9 01 | 169 | 12 16 | |
| 36 GENERAL PEADING 37 OTHER ACTIVITIES OUTSIDE SCHOOL PEOPLE AT SCHOOL PEOPLE CUTSIDE OF SCHOOL HATEPIALS AT SCHOOL PLACES TO GET INFORMATION OUTSIDE OF SCHOOL ACTIVITIES ARRANGED BY SCHOOL ACTIVITIES OUTSIDE OF SCHOOL NOT AFFLICABLE DON'T KHOW NO RESPONSE | | 1237 | 77 41 | 1251 | 80.45 | 1390 | 80.39 | |
| NOW MUCH DO YOU KNOW ABOUT JOB SECURITY FOR THE A GPEAT DEAL SCHE VERY LITTLE HOTHING NOT APPLICABLE DON'T KNOW NO PESFONSE TOTAL | JOS IN QUES | TION 4 | 467 | 34.6 | 01 | 748 | 14 50 | |
| A GOEAT DEAL | | 284 | 19.10 | G#5 | 16 70 | 491 | 16.57 10.40 | |
| SCHE | | 3.51 | 26 /0 | 440 | 30 10 | 474 101 | 20 40 27 40 | |
| VERY LITTLE | | 323 | 22 05 | 330 201 | 22.95 | 7°2 | 24.33 | |
| NOTHING | | 3 € 8 | 26 77 | و ټو ه | 26 68 | ^ 5~0 | 24.07 ^ n | |
| NOT APPLICABLE | | 0 | 0.0 | v | 0.0 | v n | 0.0 | |
| סטייד גויסש | | 0 | 0 0 | 4.6 | 0 0/ | 46 | U. U 4. N2 | |
| NO PESFONSE | | 80 | 5 38 | 44 | 3 01 | C7 | 4. Vc | |
| TOTAL | | 1487 | °3 05 | 1462 | 94 02 | 1612 | | |
| 598 | | | | | | | | (CONTINU |
| ERIC. | | | | | | | | |

| DF OBSERVATIONS | | | RATUH1 598 | | RATUM2 555 | STRATUH3 1729 | | |
|---|----------|-----|---------------|------|---------------|------------------|---------|--|
| TEHS AND Ternatives | | | 0000000 | *** | BEOGRA | | | |
| . E | , | REW | PERCENT | FREW | PERCENT | FREU | PERCENT | |
| DURCES OF JOS SECURITY INFORMATION | | | | | | | | |
| 1 TEACHEPS | | 79 | 7.83 | 65 | 6.45 | 80 | 6.94 | |
| 2 COURSELORS | | 39 | 3.87 | 53 | 5.18 | 46 | 3.99 | |
| 3 PRINCIPAL OR ASSISTANT PRINCIPAL | | 4 | 0 40 | 5 | 0.49 | 3 | 0 26 | |
| 4 LIBCARIAN | | 1 | 0.10 | 3 | 0.29 | 1 | 0.09 | |
| 5 FRIENCS | | 54 | 2 58 | 28 | 2.73 | 20 | 1.74 | |
| 6 SOMEONE ELSE AT SCHOOL | | 2 | 0.20 | 3 | 0 29 | 2 | 0.17 | |
| 7 PARENTS OR RELATIVES | | 133 | 13.18 | 171 | 16 70 | 211 | 18.32 | |
| 8 FRIENDS OUTSIDE SCHOOL | | 16 | 1 59 | 20 | 1 95 | 20 | 1.74 | |
| 9 SOMEONE IN THIS FIELD | | 111 | 11.00 | 149 | 14 55 | 168 | 14.58 | |
| 10 EMPLOYMENT SERVICE REP | | 6 | 0 59 | 4 | 0 39 | 4 | 0.35 | |
| 11 SOMEONE ELSE OUTSIDE SCHOOL | | 24 | 2 38 | 23 | 2 25 | 31 | 2.69 | |
| 12 BOOKS, MAGAZINES, PAMPHLETS, REPORTS | | 130 | 12 88 | 140 | 13.67 | 139 | 12.07 | |
| 13 FILMS, TAPES, CASSETTES | | 5 | 0 50 | 7 | 0.68 | 3 | 0.26 | |
| 14 MICROFICHE | | 8 | 0 79 | 4 | 0 39 | 5 | 0.43 | |
| 15 COMPUTER | | 9 | 0 89 | 10 | 0.98 | 33 | 2.86 | |
| 16 OTHER MATERIALS AT SCHOOL | | 3 | 0 30 | 5 | 0 49 | 5 | 0.43 | |
| 17 PUBLIC LIBRARY | | 23 | 2 28 | 18 | 1 76 | 11 | 0.95 | |
| 18 DISTRICT OR REGIONAL CAREER CENTER | | 6 | 0 59 | 2 | 0 20 | 7 | 0.61 | |
| 19 STATE EMPLOYMENT OFFICE | | 2 | 0 20 | 4 | 0.39 | 3 | 0.26 | |
| 20 OTHER PLACE OUTSIDE OF SCHOOL | | 14 | 1.39 | 17 | 1.66 | 12 | 1.04 | |
| 21 CAREER DAYS OR ASSEMBLY PROGRAMS | | 5.5 | 2.18 | 18 | 1.76 | 22 | 1.01 | |
| 22 CAREER CLUES | | 2 | 0.20 | 0 | 0.0 | 2 | 0.17 | |
| 23 CLASSES IN CAREER PLANNING | | 18 | 1.78 | 15 | 1.17 | 12 | 1.04 | |
| 24 JOS SHADOHING (OBSERVING A WORKER) | | 4 | 0.40 | 6 | 0.59 | 7 | 0.61 | |
| 25 VISITS TO JOB SITES | | 13 | 1 09 | 8 | 0 78 | 9 | 0.78 | |
| 26 WORK STUDY OR INTERNSHIP FROGRAMS | | 6 | 0 59 | 5 | 0.49 | 4 | 0.35 | |
| 27 VOLUNTEER WORK APRANGED BY SCHOOL | | 0 | 0 0 | 2 | 0 20 | 1 | 0.09 | |
| 28 MEETING WITH FORMER STUDENTS | | 2 | 0.20 | 1 | 0 10 | 4 | 0 35 | |
| 29 MEETING WITH OTHER WORKERS OR EMPLOYERS | | 15 | 1 49 | 16 | 1.56 | 20 | 1.74 | |
| 30 OTHER ACTIVITIES ARRANGED BY SCHOOL | | 3 | 0 30 | 2 | 0.20 | 5 | 0.43 | |
| 31 MOCK | | 37 | 3 67 | 47 | 4 59 | 37 | 3.21 | |
| 32 WATCHING PEOPLE AT WORK | | 4 | 0.40 | 8 | 0 78 | 12 | 1.04 | |
| 33 WATCHING TV | | 13 | 1 29 | 9 | 0.88 | 16 | 1.39 | |
| 34 MOVIES | | 3 | 0 30 | 3 | 0 29 | 1 | 0 09 | |
| 35 CLUES | | 4 | 0 40 | 2 | 0 20 | 4 | 0 35 | |
| 36 GENEPAL READING | | 25 | 2.48 | 27 | 2.64 | 3 3 | 5 86 | |
| 37 OTHER ACTIVITIES OUTSIDE SCHOOL | | 11 | 1.09 | 8 | 0 78 | 8 | 0 69 | |
| | (Q, 1 - | 1 | 0 10 | 3 | 0 29 | 4 | 0.35 | |
| PECPLE CUTSINE OF SCHOOL | (Q 7 - | 5 | 0 50 | 2 | 0 20 | 6 | 0 52 | |
| MATERIALS AT SCHOOL | (Q. 12 - | 6 | 0 59 | 1 | 0 10 | 5 | 0 43 | |
| PLACES TO GET INFORMATION OUTSIDE OF SCHOOL | tQ, 17 - | 0 | 0.0 | 1 | 0.10 | 0 | 0.0 | |



| NUMBER OF OBSERVA-LONS | | | | STRATUM1 1598 | | STRATURE 1555 | | STRATUM3 1729 | | |
|------------------------|--|-------------|----|------------------|---------|------------------|--------|------------------|------|--------------|
| | ITEMS AND ALTERNATIVES | | | FI | REQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| | (ITEM CONTINUED) | | | | | | | | | |
| Q\$4 | SOURCES OF JC3 SECURITY INFORMATION | | | | | | | | | |
| | ACTIVITIES ARRANSED BY SCHOOL | ŧQ. | | | 0 | 0.0 | 1 | 0.10 | 1 | 0.09 |
| | ACTIVITIES OUTSIDE OF SCHOOL | ∶ ¶, | 31 | - | 1 | 0.10 | ₹ | 0.20 | 3 | 0.26 |
| | NOT APPLICABLE | | | | Đ | 0 0 | 0 | 0.0 | 0 | 0.0 |
| | DON'T KNOW | | | | 2 | 0.20 | | 0.29 | 4 | 0.35 |
| | NO RESPONSE | | | | 213 | 21 11 | 136 | 13.28 | 184 | 15.97 |
| | TOTAL | | | 1 | 009 | 63.14 | 1024 | 65.85 | 1152 | 66.63 |
| 955 | HOM MUCH DO YOU KNOW ABOUT HELPING OTHERS FOR TH | E J08 | IN | | | | | | | |
| | A GREAT DEAL | | | | 385 | 25.89 | 347 | 23.73 | 382 | 23.65 |
| | SOME | | | | 482 | 32.41 | 533 | 36.46 | 519 | 32.14 |
| | VERY LITTLE | | | | 231 | 15 53 | 214 | 14.64 | 265 | 16.41 |
| | NOTHINS | | | | 205 | 19.84 | 313 | 21.41 | 303 | 22.48 0.0 |
| | NOT APPLICABLE | | | | ٥ | 0 0 | 0 | 0.0 0.0 | 0 2 | 0.0 |
| | DON'T KHOW NO RESPONSE | | | | 94 | 0.0 6.32 | 55 | 3.76 | 84 | 5.20 |
| | TOTAL | | | 1. | 487 | 93.05 | 1462 | 94.02 | 1615 | 93.41 |
| | TOTAL | | | 4 | 70/ | 73.03 | 1402 | 74.02 | 1013 | 72.72 |
| 956 | SOURCES OF INFORMATION ON HELPING OTHERS | | | | | | | | | |
| | 1 TEACHERS | | | | 83 | 7.56 | 103 | 9.41 | 77 | 6.60 |
| | 2 COUNSELORS | | | | 50 | 4.55 | 69 | 6 31 | 58 | 4 97 |
| | 3 PRINCIPAL OR ASSISTANT PRINCIPAL | | | | 3 | 0 27 | 1 8 | 0 09 0 73 | 2 | 0 17 0 34 |
| | 4 LIEPARIAN 5 Friends | | | | 33 | 0.18 3.01 | 29 | 2.65 | 56 | 2 23 |
| | 6 SOMEONE ELSE AT SCHOOL | | | | 33 5 | 0.46 | 7 | 0.64 | 5 | 0.43 |
| | 7 PARENTS OF RELATIVES | | | | 124 | 11.29 | 145 | 13.25 | 167 | 14 32 |
| | 8 FRIENDS OUTSIDE SCHOOL | | | | 23 | 2.09 | 11 | 1.01 | 22 | 1.69 |
| | 9 SOMEONE IN THIS FIELD | | | | 117 | 10 66 | 141 | 12.89 | 163 | 13 98 |
| | 10 EMPLOYMENT SERVICE PEP | | | | 5 | 0.46 | 3 | 0 27 | 2 | 0 17 |
| | 11 SOMEONE ELSE OUTSIDE SCHOOL | | | | 21 | 1.91 | 23 | 2.10 | 26 | 2.23 |
| | 12 BOCKS, MAGAZINES, PANIFHLETS, REPORTS | | | | 117 | 10.66 | 64 | 14.99 | 146 | 12.52 |
| | 13 FILMS, TAPES, CASSETTES | | | | 11 | 1.00 | 9 | 0.82 | 17 | 1.46 |
| | 14 MICROFICHE | | | | 5 | 0.46 | 5 | 0.55 | 3 | 0.26 |
| | 15 CONFUTER | | | | 7 | 0.64 | 4 | 0.37 | 18 | 1.54 |
| | 16 OTHER MATERIALS AT SCHOOL | | | | 3 | 0.27 | 7 | 0.64 | 3 | 0.26 |
| | 17 PUBLIC LIBRARY | | | | 26 | 2 37 | 17 | 1.55 | 20 | 1.72 |
| | 18 DISTRICT OR REGIONAL CAREER CENTER | | | | 3 | 0.27 | 2 | 0.18 | 4 | 0 34 |
| | 19 STATE EMPLOYMENT OFFICE | | | | 3 | 0.27 | 1 | 0.09 | 0 | 0.0 |
| | 20 OTHER PLACE OUTSIDE OF SCHOOL | | | | 20 | 1 82 | 13 | 1.19 | 17 | 1.46 |
| | 21 CAREER DAYS OR ASSEMBLY PROGRAMS | | | | 2.5 | 2.00 | 24 | 2.19 | 19 | 1.63 |



| HUPTHER OF OBSERVATIONS | | STRATUM1 1598 | | STRATUM2 1555 | | STRATUM3 1729 | |
|---|------------|------------------|---------|------------------|---------|------------------|---------|
| ITEMS AND Alternatives | | FREQ | PERCENT | FREQ | PERCENT | FREQ | PERCENT |
| (ITEM CONTINUED) | | | | | | | |
| 956 SOURCES OF INFORMATION ON HELPING OTHERS | | | | | | | |
| 22 CAREER CLUES | | 7 | 0.64 | 2 | 0 18 | 3 | 0.26 |
| 23 CLASSES IN CAREER PLANNING | | 20 | 1 82 | 13 | 1.19 | 12 | 1.03 |
| 24 JCS SHADCHING (OSSERVING A WORKER) | | 5 | 0.46 | 8 | 0.73 | 15 | 1.03 |
| 25 VISITS TO JOB SITES | | 13 | 1 18 | 15 | 1.37 | 13 | 1.11 |
| 26 WORK STUDY OR INTERNSHIP FROGRAMS | | 7 | 0 64 | 7 | 0.64 | 8 | 0.69 |
| 27 VOLUNTEER WORK ARRANGED BY SCHOOL | | 5 | 0.46 | 4 | 0.37 | 4 | 0.34 |
| 28 MEETING WITH FORMER STUDENTS | | 6 | 0 55 | 5 | 0.45 | 3 | 0.26 |
| 29 MEETING WITH OTHER WORKERS OR EMPLOYERS | | 11 | 1.00 | 10 | 0.91 | 15 | 1.29 |
| 30 OTHER ACTIVITIES ARRANGED BY SCHOOL | | 5 | 0.46 | 3 | 0.27 | 6 | 0.51 |
| 31 HCRK | | 43 | 3.98 | 54 | 4.94 | 42 | 3.60 |
| 32 HATCHING PEOPLE AT MORK | | 32 | 2.91 | 24 | 2.19 | 27 | 2.32 |
| 33 HATCHING TV | | 20 | 1 82 | 16 | 1.46 | 22 | 1.89 |
| 34 MOVIES | | 6 | 0.55 | 6 | 0.55 | 3 | 0.26 |
| 35 CLUBS | | 9 | 0 82 | 10 | 0.91 | 16 | 1.37 |
| 36 GEKERAL READING | | 37 | 3.37 | 24 | 2 19 | 42 | 3.60 |
| 37 OTHER ACTIVITIES OUTSIDE SCHOOL | | 10 | 0.91 | 7 | 0.64 | 13 | 1.11 |
| PEOPLE AT SCHOOL | (0. 1 - | 2 | 0 18 | 2 | 0 18 | 3 | 0.26 |
| PEOPLE OUTSIDE OF SCHOOL | (9. 7 - | 3 | 0.27 | 5 | 0.46 | 6 | 0.51 |
| MATERIALS AT SCHOOL | (9 12 - | 3 | 0 27 | 2 | 0.18 | 3 | 0 26 |
| PLACES TO GET INFOPMATION OUTSIDE OF SCHOOL | (Q 17 - | ō | 0.0 | ī | 0.09 | 0 | 0.0 |
| ACTIVITIES ARRANGED BY SCHOOL | 19 21 - | 4 | 0 36 | 2 | 0.18 | 1 | 0.09 |
| ACTIVITIES OUTSIDE OF SCHOOL | (Q 31 - | 3 | 0.27 | 3 | 0 27 | 4 | 0 34 |
| NOT APPLICABLE | | ō | 0.0 | 0 | 0 0 | 0 | 0 0 |
| DCN'T KNOW | | 2 | 0 18 | 5 | 0 45 | 6 | 0.51 |
| NO RESPONSE | | 215 | 19.58 | 128 | 11.70 | 189 | 16.21 |
| TOTAL | | 1008 | 68 71 | 1094 | 70.35 | 1166 | 67.44 |
| Q57 HOW MUCH DO YOU KNOW ABOUT USUAL ACTIVITIES FOR | THE JOB IN | QUESTI | ION 467 | | | | |
| A GREAT DEAL | | 414 | 27.84 | 429 | 29.34 | 507 | 31.39 |
| SOME | | 615 | 41 36 | 667 | 45 62 | 668 | 41.36 |
| VERY LITTLE | | 855 | 15.33 | 193 | 13.20 | 207 | 10.82 |
| HOTHING | | 142 | 9 55 | 120 | 8 21 | 152 | 9.41 |
| NOT AFPLICABLE | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| DON'T KNOW | | 0 | 0.0 | 0 | 0.0 | 1 | 0.06 |
| NO RESPONSE | | 88 | 5 92 | 53 | 3 63 | 80 | 4.95 |
| TOTAL | | 1487 | 93 05 | 1462 | 94 02 | 1615 | 93.41 |



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| NUTBER OF OBSERVATIONS | : | STRATUM1 1598 | | 318ATUM2 1555 | | STRATUMS 1729 | |
|--|------------|------------------|------|------------------|-------|------------------|--|
| ITEMS AND Alternatives | FREC | PERCENT | FREQ | PERCENT | FREQ | PERCENT | |
| 958 SOURCES OF INFORMATION ON THE USUAL ACTIVITIES | IN A JOB | | | | | | |
| 1 TEACHERS | 10 | 8.19 | 115 | 8.90 | 113 | 8.18 | |
| 2 COUNSELORS | 35 | 2.78 | 52 | 4.03 | 43 | 3.11 | |
| 3 FRINCIPAL OR ASSISTANT PRINCIPAL | • | 3 0 24 | 1 | 0.08 | 1 | 0.07 | |
| 4 LIERARIAN | 4 | 0 32 | 5 | 0.39 | 4 | 0.29 | |
| S FRIENDS | 36 | 5 2 66 | 52 | 4.03 | 29 | 2.10 | |
| 6 SOMEONE ELSE AT SCHOOL | , | 3 0.24 | 7 | 0.54 | 4 | 0.29 | |
| 7 PARENTS OF RELATIVES | 14! | 11.54 | 164 | 12.72 | 215 | 15.56 | |
| 8 FRIENDS OUTSIDE SCHOOL | 24 | 1.91 | 23 | 1.78 | 39 | 2.82 | |
| 9 SOMEONE IN THIS FIELD | 194 | | 220 | 17,07 | 2 3 5 | 17.00 | |
| 10 EMPLOYMENT SERVICE REP | | 5 0 40 | 4 | 0.31 | Z | 0.14 | |
| 11 SOMEONE ELSE OUTSIDE SCHOOL | 3: | 2 5 5 5 | 27 | 2 09 | 35 | 2.32 | |
| 12 BCCKS, MAGAZINES, PAMPHLETS, REPORTS | 13: | 2 10.50 | 170 | 13.19 | 151 | 10.93 | |
| 13 FILMS, TAPES, CASSETTES | 16 | 1.11 | 17 | 1.32 | 17 | 1.23 | |
| 14 MICPOFICHE | • | 0.32 | 7 | 0.54 | 8 | 0.58 | |
| E 15 COMPUTER | 1 | 3 1.03 | 8 | 0.62 | 5.3 | 1.66 | |
| 16 OTHER HATERIALS AT SCHOOL | ; | 2 0.16 | 6 | 0 47 | 7 | 0.51 | |
| 17 FUBLIC LIBRARY | 21 | 2 2 3 | 7.5 | 0.93 | 23 | 1.66 | |
| 18 DISTRICT OR REGIONAL CAREER CENTER | • | | 3 | 0 23 | 4 | 0.29 | |
| 19 STATE EMPLOYMENT OFFICE | ; | 0 08 | 0 | 0.0 | 0 | 0.0 | |
| 20 OTHER PLACE OUTSIDE OF SCHOOL | 1' | | 18 | 1 40 | 19 | 1.37 | |
| 21 CAREER DAYS OR ASSEMBLY PROGRAMS | 24 | | 24 | 1 86 | ĉ 6 | 1.83 | |
| 22 CAREER CLUDS | | | 1 | 0.03 | | 0.22 | |
| 23 CLASSES IN CAREER PLANNING | 21 | | 14 | 1.09 | 10 | 0.72 | |
| 24 JOB SHADOHING (OBSERVING A HORKER) | 10 | | 13 | 1.01 | 20 | 1.45 | |
| 25 VISITS TO JOB SITES | 24 | | 16 | 1.24 | 17 | 1 53 | |
| 26 WORK STUDY OR INTERHISHIP PROGRAMS | • | | 12 | 0 93 | 12 | 0.87 | |
| 27 VOLUNTEER WORK APRANGED BY SCHOOL | | 4 0.32 | 8 | 0.62 | 4 | 0.29 | |
| 28 MEETING WITH FORMER STUDENTS | | 5 0 40 | 3 | 0.23 | 6 | 0.43 | |
| 29 MEETING WITH OTHER WORKERS OR EMPLOYERS | | | 26 | 2 02 | 28 | 2.03 | |
| 30 OTHER ACTIVITIES ARRANGED BY SCHOOL | 1 | | 4 | 0 31 | | 0 36 | |
| 31 WORK | 5! | | 72 | 5.59 | 60 | 4.34 3.91 | |
| 32 WATCHING PEOPLE AT WORK | 4: | | 43 | 3.34 | 54 | | |
| 33 HATCHING TV | 24 | | 25 | 1.94 | 25 | 1.61 | |
| 34 MOVIES | | 0.16 | 7 | 0.54 | 12 | 0.87 | |
| 35 CLUES | | 9 0.72 | 8 | 0.62 | 4 | 0.65 | |
| 36 GENERAL READING | 3' | | 28 | 2.17 | 41 | 2.97 1.45 | |
| 37 OTHER ACTIVITIES OUTSIDE SCHOOL | | | 14 | 1.09 | 20 | | |
| PEOPLE AT SCHOOL | (Q. 1 - | | 2 | 0.16 | 2 | 0.14 | |
| PECPLE DUTSIDE OF SCHOOL | | 3 0.24 | 6 | 0.47 | 7 | 0.51 | |
| MATERIALS AT SCHOOL | . = = | 5 0.40 | 4 | 0.31 | 4 | 0.29 | |
| PLACES TO GET INFORMATION OUTSIDE OF SCHOOL | DL (Q 17 - | 0.08 | 1 | 0.08 | 0 | 0.0 | |



| P OF OBSERVATIONS | | RATUM1 598 | | RATUM2 555 | STRATUM3 1729 | | |
|---|-------------|---------------|------------|----------------|------------------|----------------|--|
| ITEMS AND | | | | 00000 | rato | DEDCENT | |
| ALTERNATIVES | FREG | PERCENT | FREQ | PERCENT | PREM | PERCENT | |
| ITEM CONTINUED) | | | | | | | |
| SOURCES OF INFORMATION ON THE USUAL ACTIVITIES IN A JCB | | | | | _ | | |
| ACTIVITIES ARPANSED BY SCHOOL (Q. 21 - | 3 | 0.24 | 1 | 0.08 | 1 | 0.07 | |
| ACTIVITIES OUTSIDE OF SCHOOL (9 31 - | 2 | 0.16 | 0 | 0.0 | 6 0 | 0.43 0.0 | |
| NOT APPLICABLE | 0 | 0.0 | 0 | 0.16 | 2 | 0.14 | |
| DON'T KNOW | 2 | 0 16 14.96 | 2 121 | 9.39 | 155 | 11.22 | |
| NO RESPONSE | 188 1257 | 78 66 | 1289 | 82 89 | 1382 | 79.93 | |
| TOTAL | 1637 | 70 99 | 1607 | 02 07 | 1301 | | |
| MHY DID YOU USE THE SOURCE IN QUESTION 58? | | | | | | | |
| ORLY SOUPCE I KNEW ABOUT | 147 | 11 69 | 120 | 9.31 | 131 | 9.48 | |
| I WAS TOLD TO USE THIS SOURCE | 241 | 19 17 | 214 | 16 60 | 220 | 16.35 | |
| I MANTED TO REALLY FIND OUT ABOUT THE JOB | 605 | 48 13 | 661 | 51.28 | 637 | 45.09 | |
| I HANTED TO GET INFOPMATION FROM SOMEONE WHO KNEW ME | 321 | | 352 | 27 31 | 359 | 25.93 | |
| IT WAS EASY TO GET INFORNATION FROM THIS SOUPCE | 502 | 41.53 | 564 | 43.75 | 661 | 47.63 | |
| I THOUGHT INFORMATION FROM THIS SOURCE HOULD BE EASY T | | 29 12 | 425 | 32 97 | 418 | 30.25 39.26 | |
| I THOUGHT INFORMATION FROM THIS SOURCE WOULD BE UP TO | 448 | 35.64 | 477 | 37.01 | 544 | 39.10 50.29 | |
| I MANTED TO GET A GENERAL IDEA OF THAT OCCUPATION | 626 | 49 60 | 688 | \$3.37 8.22 | 695 119 | ∌0.29 8.61 | |
| I WASN'T PEALLY LOOKING FOR INFORMATION AT THE TIME | 103 | 8 19 5 41 | 106 102 | 8.22 7 91 | 109 | 7.89 | |
| OTKER | 6 3 | 2 41 | 102 | 0 0 | 0 | 0.0 | |
| NOT APPLICABLE | 0 | 0.0 | 0 | 0.0 | 0 | 3.0 | |
| DON'T KNOW NO RESPONSE | 21 | 1.67 | 20 | 1.55 | 33 | 2.39 | |
| TOTAL | 1257 | | 1289 | 82.89 | 1382 | 79.93 | |
| TOTAL | 165. | | 1007 | | **** | | |
| WHAT THREE SOUPCES OF INFORMATION ARE MOST INPORTANT? | | | | | | 20.00 | |
| 1 TEACHEPS | 14 | | 4 | | 12 26 | 20.00 43.33 | |
| 5 COMISEICOS. | 26 | | | 48.33 | 2 | 3 33 | |
| 3 PPINCIPAL OR ASSISTANT PRINCIPAL | 2 | | 1 | 1.67 | 2 | 3 33 | |
| 4 LIERAPIAN | 7 6 | | 1 | | 11 | 18.33 | |
| 5 FRIENDS | 2 | | 1 | | 4 | 6.67 | |
| 6 SOMEC'NE ELSE AT SCHOOL | 16 | | 18 | | 22 | 36.67 | |
| 7 PAPENTS OR RELATIVES | 3 | | 7 | | 6 | 10.00 | |
| 8 FRIENDS OUTSIDE SCHOOL 9 SCHECNE IN THIS FIELD | 19 | | 28 | 46.67 | 24 | 40.00 | |
| 10 EMPLOYMENT SERVICE REP | 12 | - | 2 | 3 33 | 7 | | |
| 11 SCHEONE ELSE OUTSIDE SCHOOL | | | 3 | 5.00 | 2 | 3.33 | |
| 12 BOOKS, MAGAZINES, FAMEHLETS, REPORTS | 15 | | 14 | | 16 | 26.57 | |
| 13 FILMS, TAPES, CASSETTES | 11 | | 2 | | 9 | 15.00 | |
| 14 MICROFICHE | 1 | | ō | 0 0 | 3 | 5 00 | |
| 15 CCMPUTER | 9 | | 4 | 6 67 | 10 | 16.67 | |
| 16 OTHER MATERIALS AT SCHOOL | 7 | 15 56 | 4 | 6.67 | 6 | 10.00 | |
| 17 PUBLIC LIEFARY | 17 | 37 78 | 6 | 10 00 | 18 | 30.00 | |
| | | | | | | | |

| ITEM CONTINUED) | | | | | | | |
|--|----------|----|-------|---|-------|----|-------|
| WHAT THREE SOURCES OF INFORMATION ARE MOST INPOR | TANT? | | | | | | |
| 18 DISTRICT OR REGIONAL CAREER CENTER | | 10 | 22 22 | 5 | 8.33 | 6 | 10.00 |
| 19 STATE EMPLOYMENT OFFICE | | 10 | 22.22 | 4 | 6.67 | 10 | 16.67 |
| 20 OTHER PLACE OUTSIDE OF SCHOOL | | 6 | 13.33 | 5 | 8.33 | 11 | 18.31 |
| 21 CAREER DAYS OR ASSEMBLY PROGRAMS | | 8 | 17.78 | 6 | 10.00 | 17 | 28.3 |
| 22 CAREER CLUDS | | 6 | 13.33 | 2 | 3.33 | 2 | 3.33 |
| 23 CLASSES IN CAREER PLANNING | | 8 | 17.78 | 7 | 11.67 | 5 | 8.33 |
| 24 JOB SMADOWING (DBSERVING A WORKER) | | 8 | 17.78 | 7 | 11 67 | 2 | 3.3 |
| 25 VISITS TO JOB SITES | | 9 | 20.00 | 8 | 13.33 | 10 | 16.6 |
| 26 WORK STUDY OR INTERNSHIP PROGRAMS | | ð | 17.78 | 3 | 5.00 | 4 | 6.6 |
| 27 VOLUNTEER WORK ARRANGED BY SCHOOL | | 5 | 11.11 | 0 | 0.0 | 2 | 3.33 |
| 28 MEETING WITH FORMER STUDENTS | | 3 | 6.67 | 1 | 1.67 | 2 | 3.33 |
| 29 MEETING WITH OTHER WORKERS OR EMPLOYERS | | 5 | 11.11 | 6 | 10.00 | 9 | 15.00 |
| 30 OTHER ACTIVITIES ARRANGED BY SCHOOL | | 4 | 8.89 | 2 | 3.33 | 5 | 8.33 |
| 31 MO4K | | 10 | 22.22 | 8 | 13.33 | 15 | 25.00 |
| 32 WATCHING PEOPLE AT WORK | | 11 | 24 44 | 6 | | 7 | 11.67 |
| 33 WATCHING TV | | 9 | 20 00 | 5 | 8.33 | 4 | 6.67 |
| 34 MOVIES | | 5 | 11.11 | 4 | 6.67 | 9 | 15.00 |
| 35 CLUBS | | 4 | 8 89 | 2 | 3.33 | 1 | 1.67 |
| 36 GENERAL READING | | 3 | 6 67 | 4 | 6.67 | 9 | 15.00 |
| 37 OTHER ACTIVITIES OUTSIDE SCHOOL | | 6 | 13.33 | 2 | 3.33 | 4 | 6.67 |
| PEOPLE AT SCHOOL | (Q. 1 - | 0 | 0,0 | 1 | 1.67 | 1 | 1.67 |
| PEOPLE OUTSIDE OF SCHOOL | (Q. 7 - | 0 | 0.0 | 1 | 1.67 | Z | 3.33 |
| MATERIALS AT SCHOOL | (Q. 12 - | 0 | 0.0 | 1 | 1.67 | 0 | 0.0 |
| PLACES TO GET INFORMATION OUTSIDE OF SCHOOL | (Q. 17 - | 0 | 0.0 | 1 | 1.67 | 1 | 1.67 |
| ACTIVITIES ARRANGED BY SCHOOL | 19. 21 - | 0 | 0.0 | 0 | 0.0 | 1 | 1.67 |
| | | | | | | _ | |

STRATUML

1598

STRATUM3

1729

FREQ PERCEI

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STRATUME

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1 1.67

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1555

FREQ PERCENT FREQ PERCENT



TOTAL

ACTIVITIES OUTSIDE OF SCHOOL

NOT APPLICABLE

DON'T KNOH

NO RESPONSE

OF DESERVATIONS

ITEMS AHO LTERNATIVES

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